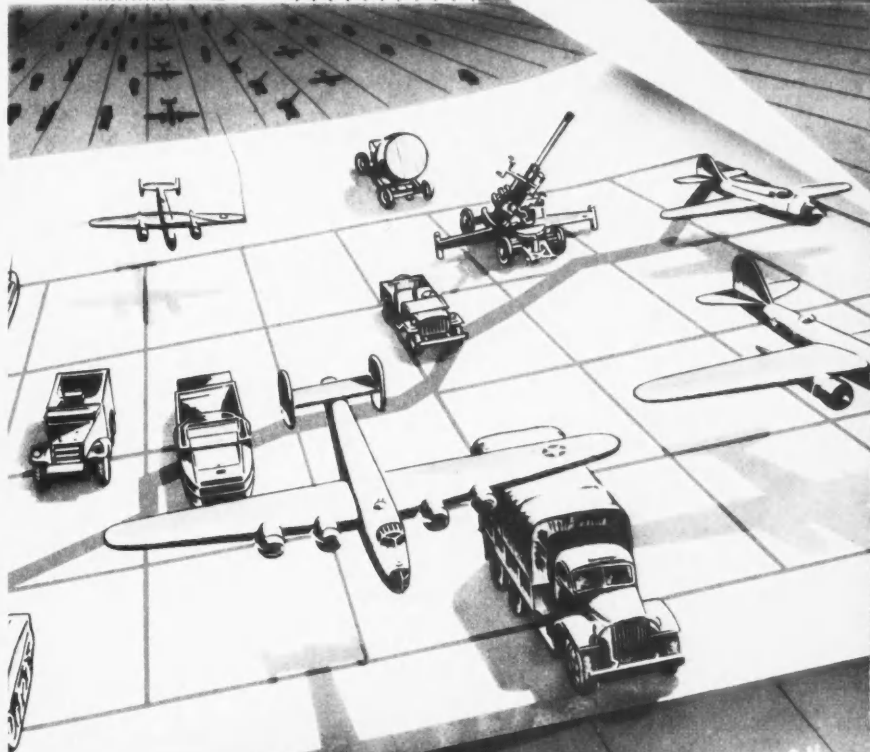


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TWENTY FIFTH EDITION 1943

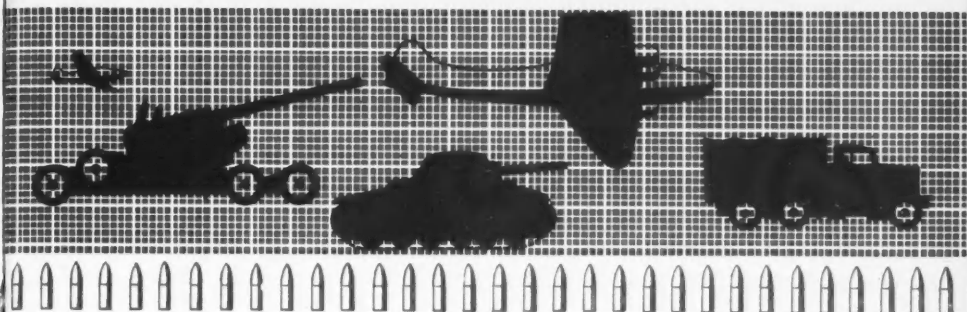
# *Automobile*

## FACTS AND FIGURES



AUTOMOBILE MANUFACTURERS ASSOCIATION





**F**OR NEARLY a quarter of a century, since the close of World War I, the annual editions of *Automobile Facts and Figures* have reviewed the rapid growth of the automotive industry into America's largest manufacturing industry. This, the twenty-fifth edition, highlights the first year and a half of all-out service to the nation.

During this scant year and a half since civilian production was stopped, the industry has lived up to its reputation as a performer of "miracles".

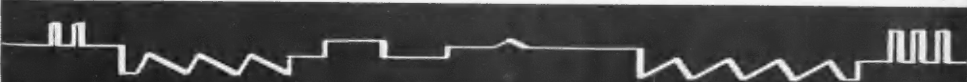
Starting with a complete conversion of plants and equipment during the early months of 1942, the output of armaments rose rapidly, so that by mid-summer the dollar volume had attained an annual rate equal to that of the highest previous year.

Production of complete aircraft, airframes, propellers, engines, gliders, tanks, tank destroyers, military vehicles, cannon, machine guns, ammunition, torpedoes, gyrocompasses, gyroscopes and several hundred other war items, continued to climb rapidly during the remainder of 1942 and the first half of 1943.

By July 1943 the annual rate had reached \$9,500,000,000, or was approximately double the output of civilian products in the previous highest year. The peak has not yet been reached.

Charts and tables of the industry's war effort and of the vital role played by wartime highway transportation are presented in this booklet.

**AUTOMOBILE MANUFACTURERS ASSOCIATION**  
New Center Building, Detroit



**AUTOMOTIVE HISTORY  
COLLECTION**

# Automobile Manufacturers Association, Inc.

New Center Building, Detroit

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Vice-President .....	ROBERT F. BLACK .....	The White Motor Company
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Treasurer .....	GEORGE W. MASON .....	Nash-Kelvinator Corporation

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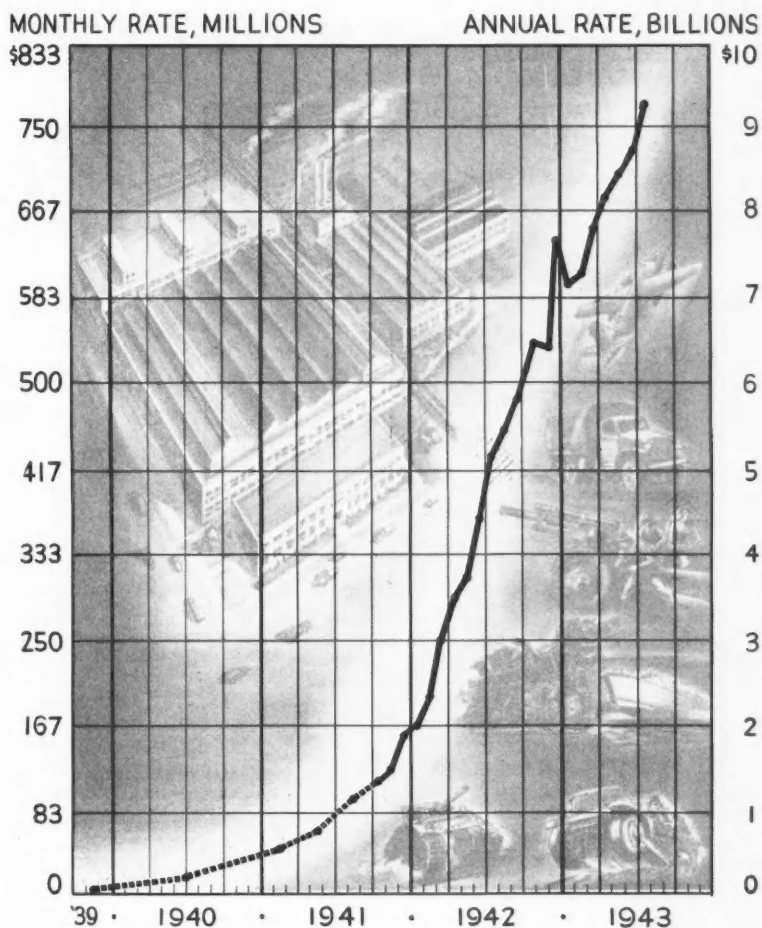
General Manager .....	GEORGE ROMNEY
Manager, Statistical Department .....	OSCAR P. PEARSON

(A list of members is given on page 62)



## Automotive Industry's War Deliveries Rise Sharply

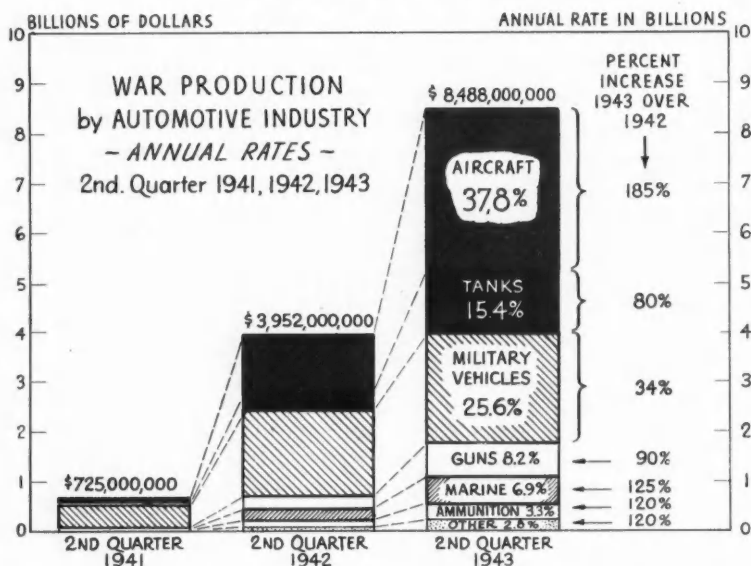
Approach \$10 Billion Annual Rate



SOURCE: Automotive Council for War Production.

# War Products Deliveries by

**Aircraft 38%, Military Vehicles 25% of Automotive Industry's Deliveries in 2nd Quarter 1943**



**Value of War Products Deliveries by Automotive Industry**

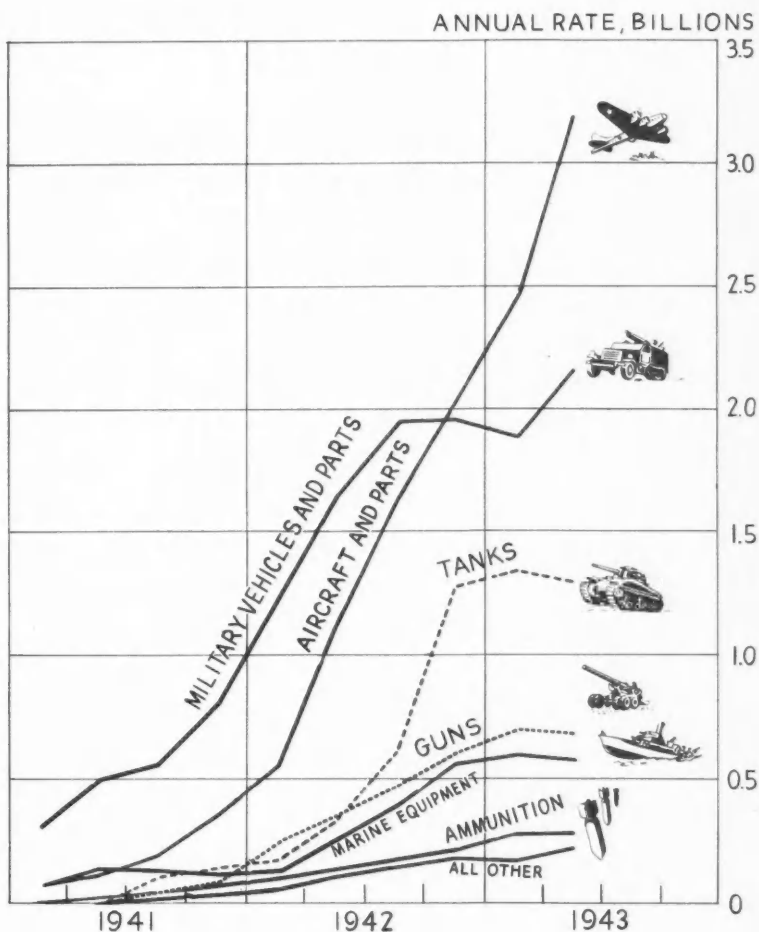
	1942		1943	
	Monthly	Annual Rate	Monthly	Annual Rate
January.....	\$ 165,300,000	\$1,984,000,000	\$ 598,600,000	\$7,183,000,000
February.....	191,400,000	2,297,000,000	609,400,000	7,313,000,000
March.....	254,700,000	3,056,000,000	653,700,000	7,844,000,000
April.....	291,100,000	3,493,000,000	671,600,000	8,059,000,000
May.....	313,200,000	3,758,000,000	702,700,000	8,432,000,000
June.....	383,800,000	4,606,000,000	747,700,000	8,972,000,000
July.....	427,200,000	5,126,000,000	796,000,000*	9,500,000,000*
August.....	452,900,000	5,435,000,000		
September.....	485,300,000	5,824,000,000		
October.....	540,700,000	6,488,000,000		
November.....	539,600,000	6,475,000,000		
December.....	645,800,000	7,750,000,000		
Total.....	\$4,691,000,000		(7 mos.) \$4,758,700,000	
Year 1940.....	\$ 141,600,000		Year 1941 \$ 933,200,000	

\*Preliminary

Source: Monthly reports to the Automotive Council for War Production.

# the Automotive Industry

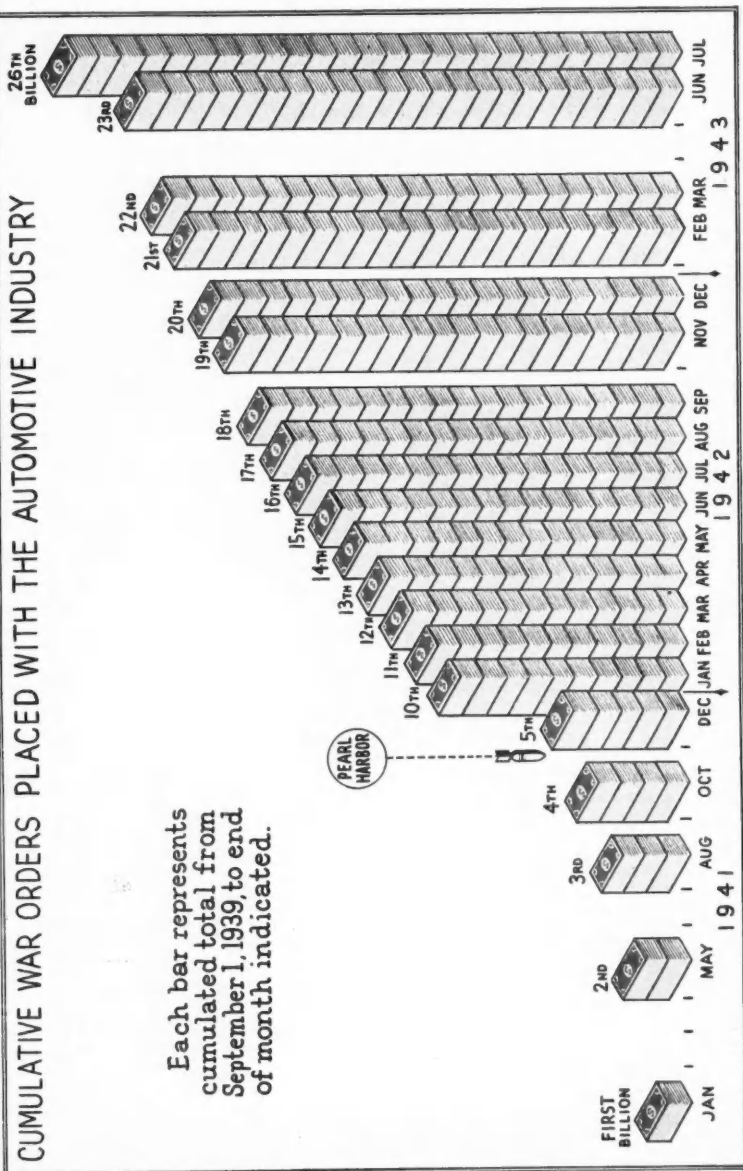
Aircraft and Parts Deliveries at Annual Rate of  $3\frac{1}{4}$  Billions of Dollars in Second Quarter 1943



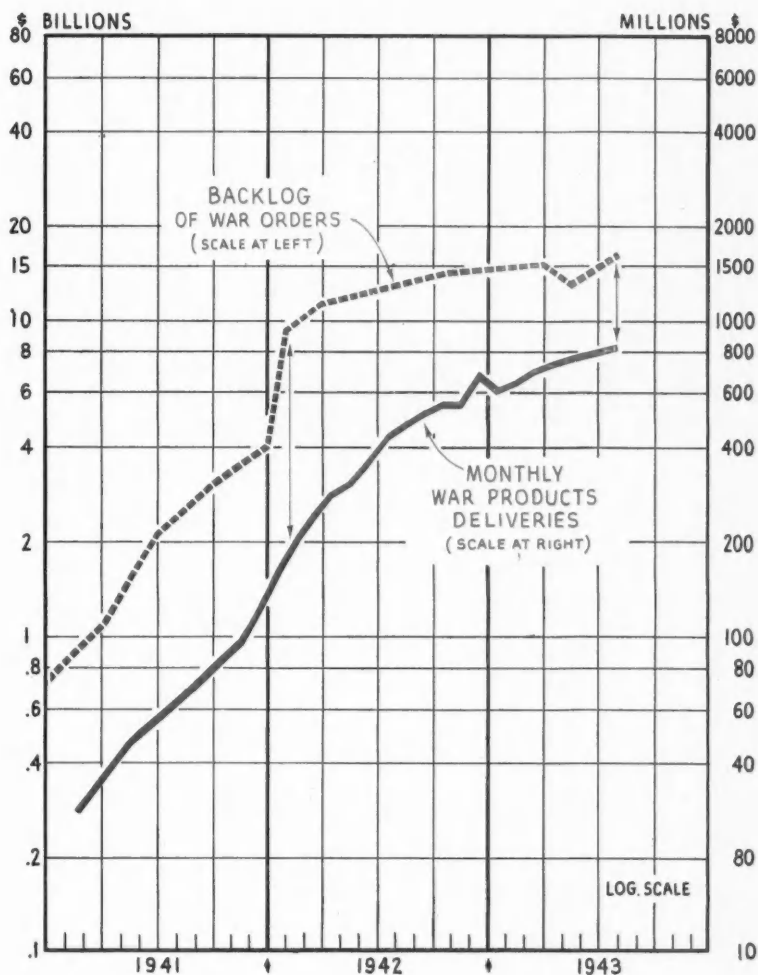
Source: Reports submitted by automotive manufacturers to the Automotive Council for War Production.

# CUMULATIVE WAR ORDERS PLACED WITH THE AUTOMOTIVE INDUSTRY

Each bar represents  
cumulated total from  
September 1, 1939, to end  
of month indicated.



## War Deliveries Gaining on Backlog of Orders in the Automotive Industry

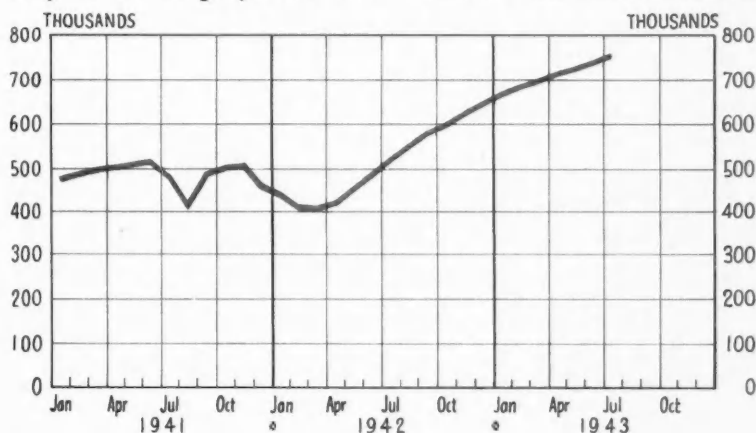


Source: Automotive Council for War Production

A map of the United States divided into regions, each labeled with a number representing the count of states in that region. The regions and their counts are: West (37), Southwest (3), Northwest (3), Mountain West (1), Great Plains (8), Central (5), Midwest (49), South (24), Southeast (4), Northeast (92), and various smaller regions in the East (53, 150, 84, 316, 4, 3, 4, 5, 1).

Motor Vehicle (Including Parts Subsidiaries)		Auto- motive Parts	Total Plants	Motor Vehicle (Including Parts Subsidiaries)		Auto- motive Parts	Total Plants
California . . .	11	26	37	New Jersey . . .	10	19	29
Colorado . . . .	1	2	3	New York . . . .	18	74	92
Connecticut . . .	3	21	24	North Carolina .	2	2	4
Florida . . . . .	1	1	1	North Dakota . .	1	..	1
Georgia . . . . .	4	1	5	Ohio . . . . .	31	119	150
Illinois . . . . .	9	89	98	Oklahoma . . . .	1	1	2
Indiana . . . . .	23	61	84	Oregon . . . . .	1	2	3
Iowa . . . . .	5	5	5	Pennsylvania . .	8	45	53
Kentucky . . . .	1	3	4	Rhode Island . .	..	3	3
Louisiana . . . .	..	1	1	Tennessee . . .	2	2	4
Maryland . . . .	2	2	4	Texas . . . . .	2	3	5
Massachusetts . .	1	18	19	Utah . . . . .	1	..	1
Michigan . . . .	96	220	316	Virginia . . . .	2	1	3
Minnesota . . . .	1	7	8	Washington . . .	2	1	3
Missouri . . . .	8	16	24	Wisconsin . . .	10	39	49
Nebraska . . . .	1	2	3	Total . . . . .	252	786	1038

## July 1943 Employment 45% Above 1941 Peak Month



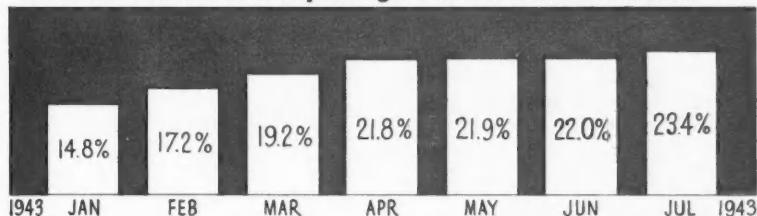
### Monthly Average Number of Wage Earners in U. S. Formerly Manufacturing Motor Vehicles and Bodies

Includes Government-Owned Plants Operated by These Companies

Thousands	1941 Total	1942 Total	Men	1943 Women	Total
January	480	437	561	98	659
February	489	406	559	116	675
March	497	404	556	132	688
April	504	419	550	153	703
May	511	450	556	156	712
June	514	479	567	160	727
July	480	512	569	174	743P
August	420	540			
September	482	570			
October	502	589			
November	505	612			
December	561	636			
Average	487	505			

P = Preliminary

### 23 Percent of July Wage Earners are Women



174,000 women were employed in July 1943 by former motor vehicle and body manufacturing plants.

# War Products Manufactured by

Aerial Torpedoes  
 Aircraft Cannon  
 Aircraft Control Instruments  
 Aircraft Engines  
 Aircraft Engine Parts  
 Aircraft Ignition Testers  
 Aircraft Machine Guns  
 Aircraft Propeller Sub-Assemblies  
 Aircraft Propellers  
 Aircraft Servicing and Testing Equipment  
 Aircraft Struts  
 Airframes  
 Air Compressors  
 Air Coolers  
 Air Pumps  
 Air Raid Sirens  
 Airplane Fuel Pumps  
 Alternators for Tanks and Airplanes  
 Aluminum Alloy Castings  
 Aluminum Alloy Forgings  
 Aluminum Alloy Rods  
 Ambulances  
 Ammunition Box Parts  
 Ammunition Hoists  
 Amphibian Jeeps  
 Amphibian Tank Radiators  
 Amphibian Tanks  
 Amphibian Trucks  
 Aneroid Valves  
 Anti-Aircraft Directors  
 Anti-Aircraft Gun Mounts  
 Anti-Aircraft Guns and Parts  
 Anti-Aircraft Searchlight Parts  
 Anti-Tank Guns  
 Anti-Tank Mines  
 Anti-Tank Mine Fuzes  
 Armor Plate  
 Armored Cars  
 Artillery Ammunition and Components  
 Artillery Carriages  
 Artillery Gun Chassis  
 Artillery Prime Movers  
 Assault Boat Carriers  
 Automatic Pilots  
 Autodyn Motors

Batteries for Planes, Tanks, and Trucks  
 Battery Chargers  
 Bayonet Scabbards  
 Bearings, Ball and Roller  
 Binoculars  
 Black-Out Lamps  
 Blowers  
 Bomb Bay Doors  
 Bomb Components  
 Bomb Loading Trailers  
 Bomb Shackle Assemblies  
 Bomb Tails  
 Bomber Jacks  
 Bomber Sub-Assemblies  
 Bombers  
 Boosters  
 Boring and Turning Mills  
 Bracket Assembly for Gun Trunnions  
 Breech Housings  
 Bullet Cores  
 Buses  
 Bushings

Cantonment Furnaces  
 Carbines  
 Carbines, Semi-Automatic  
 Carburetors  
 Cargo Body Trucks  
 Cargo Vessels  
 Carryall Trucks

Cartridge Cases  
 Cartridge Clips  
 Casing Burstors  
 Catapult Bearings  
 Cavalry Auxiliaries  
 Command Radio Cars  
 Command Reconnaissance Cars  
 Communication Equipment  
 Control Wheels  
 Cord Winders  
 Crash Trucks  
 Current Regulators

Demolition Bombs  
 Dies  
 Diesel Engines for Navy  
 Drills  
 Ducts for Heavy Bombers  
 Dump Trucks

Earth Borer Trucks  
 Electric Motors  
 Electrical Equipment  
 Electrical Power Plant Trucks  
 Engine Hoists  
 Engines for Landing Barges  
 Exhaust Manifolds

Field Artillery  
 Field Kitchen Trucks  
 Field Machine Guns  
 Field Radio Cars  
 Field Ranges and Parts  
 Fighter Aircraft  
 Fire Engines  
 Fire Fighting Equipment  
 Firing Directors  
 Fixtures  
 Flame-Resistant Plastic  
 Flaps for Heavy Bombers  
 Flood Lighting Trucks  
 Flywheel Assemblies  
 Forgings  
 Fuel Pump Motors (Aircraft)  
 Fuel Pumps  
 Fuel Strainers  
 Fuzes

Gas Mask Components  
 Gauges  
 Gear Boxes  
 Generators  
 Glass, Heavy Duty  
 Gliders, With and Without Engines  
 Grinders  
 Gun Carriages  
 Gun Control Equipment  
 Gun Firing Solenoids  
 Gun Motor Carriages  
 Gun Mounts and Parts  
 Gun Shoulder Rests  
 Gun Sights  
 Gun Synchronizers  
 Gun Turrets  
 Gyrocompasses  
 Gyroscopes

Half-Track Trucks  
 Hatch Covers for Bombers  
 Heat Exchangers  
 Helicopters  
 Helmets  
 Helmet Liners  
 Hydraulic Controls (Airplane)



# by the Automotive Industry

Hydraulic Control Valves

Ignition Systems and Parts  
Incendiary Bombs and Parts  
Industrial Engines  
Inner Wings for Heavy Bombers  
Instrument Bearings  
Instrument Panels

Jacks  
Jeeps  
Jigs

Laminated Glass  
Landing Brake Flaps  
Landing Gears for Bombers  
Landing Gear Struts  
Lathes  
Lighting Plants  
Locomotive Engines

Machine Guns  
Machine Gun Tripods  
Machine Shop Trucks  
Machine Tools  
Machining  
Magnesium  
Magnesium Castings  
Magnets  
Manifold Assemblies  
Marine Engines for Surface Vessels  
Marine Engine Propeller Shafts  
Marine Equipment  
Marine Instruments  
Marine Propellers  
Marine Tractors  
Mess Kits  
Metallic Link Belts  
Military Locomotives  
Mines  
Mine Anchors  
Mobile Field Hospital Units  
Mobile Optical Units

Nacelles for Bombers  
Naval Gun Housings  
Navy Fighter Tail Sections  
Navy Fighter Wings  
Navy Pontoons  
Navy Warning Signals

Oil Coolers  
Oil Filters  
Oil Pressure Gauges  
Oxygen Cylinders

Parachute Flares and Flare Projectors  
Personnel Carriers  
Pigeon Loft Trucks  
Pole Setter Trucks  
Portable Gasoline Pumps  
Power Take-Off Units  
Powdered Metal Parts  
Practice Shells  
Primers  
Prisms  
Projectiles  
Pump Assemblies

Radiators  
Radio Compasses  
Radio Receivers and Transmitters  
Radios

Range Correction Boards  
Recoil Mechanisms  
Refrigeration Compressors  
Refrigerators and Parts  
Relay Housings

Scout Cars  
Searchlight Reflectors  
Semi-Trailers  
Shapers  
Shell Boosters  
Shell Castings  
Shell Forgings  
Shell Hoists  
Shell Housings  
Shells  
Shot  
Signal Parts  
Solenoid Switch Starters  
Solenoids for Bomb Release  
Spark Plugs  
Speedometers  
Staff Cars  
Stampings  
Starting Motors  
Stationary Engines  
Steel Castings  
Steering Gears  
Submarine Diesel Engines  
Submarine Identification Signals  
Supercharger Intercoolers  
Superchargers

Tachometers  
Tank Artillery  
Tank Cannon  
Tank Destroyers  
Tank Engines  
Tank Gun Mounts  
Tank Guns  
Tank Tracks  
Tank Transmissions  
Tank Transporter Trucks  
Tank Trucks (Oil and Gas)  
Tank Turrets  
Tanks and Parts  
Telephone Exchange Trucks  
Telephone Maintenance Trucks  
Temperature and Humidity Control Units  
Tent Heaters  
Third Axles  
Tool Kits  
Tools  
Torpedo Engines  
Torpedo Parts  
Torpedoes  
Tractor-Trucks  
Trailer Unit-Fire Fighting Pumps  
Trailers  
Trench Mortar Shells  
Troop Transport Trucks  
Truck Engines  
Truck Tire Chains  
Turrets for Bombers

Water Coolers  
Water Filtration Trucks  
Weapon Carrier Trucks  
Wheel and Brake Assemblies  
Winches, Various Types  
Wing Sections, Attack Bombers  
Wing Tips for Bombers  
Wings, Army Fighter Planes  
Wiring Equipment for Planes, Tanks, and Trucks  
Wrecker Trucks


# War of Horsepower

A modern motorized division of the U. S. Army uses 11,500% more horsepower (i.e. motors) than an Infantry Division did in the last World War. Approximately 400,000 horsepower is utilized today compared with 3200 in 1918.

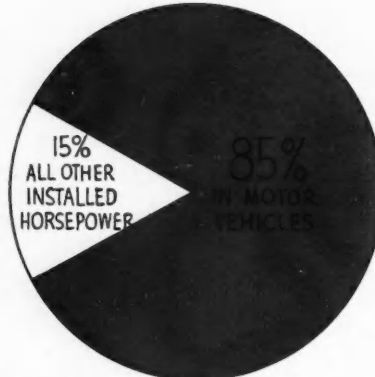
AN INFANTRY DIVISION IN WORLD WART USED 3200 AUTOMOTIVE HORSEPOWER

A MOTORIZED DIVISION IN WORLD WAR II USES 400,000 HORSEPOWER

Two-thirds of the daily sustaining tonnage of a fighting force consists of petroleum products, and only one-third comprises ammunition, food and daily general supplies. During the last war the bulk of supplies consisted first of ammunition and second of forage for horses. Eleven tons of equipment and supplies are now required per year for every soldier sent abroad.



$\frac{1}{3}$   
AMMUNITION  
FOOD AND DAILY  
GENERAL SUPPLIES



15%  
ALL OTHER  
INSTALLED  
HORSEPOWER

85%  
IN MOTOR  
VEHICLES

Of all the installed horsepower in the United States required to operate the factories, run railroads, plow fields, and do all the other jobs using mechanical power, 85 percent is under the hood of motor vehicles.

SOURCE: Based on address by Brig. General Julian S. Hatcher, Chief, Field Service Division, Office of Chief of Ordnance, U. S. A., before Society of Automotive Engineers, May 5, 1943.

# 1,516,000 Tons of Scrap Salvaged by Auto Plants

Twelve Months Ending May, 1943

IRON AND STEEL		Tons
Production Scrap.....		1,284,084
Non-Production Scrap*.....		127,961
Total Iron and Steel.....		1,412,045
NON-FERROUS METALS		
Production Scrap.....		101,094
Non-Production Scrap*.....		3,229
Total Non-Ferrous.....		104,323
TOTAL METALS		
Production Scrap.....		1,385,178
Non-Production Scrap*.....		131,190
Grand Total.....		1,516,368

\*Includes Tools, Dies, Jigs, Fixtures, Machinery, Conveyors, etc.

SOURCE: Reports to Automotive Council for War Production

## 2,043,000 Cars Wrecked by Automobile Graveyards, 1942

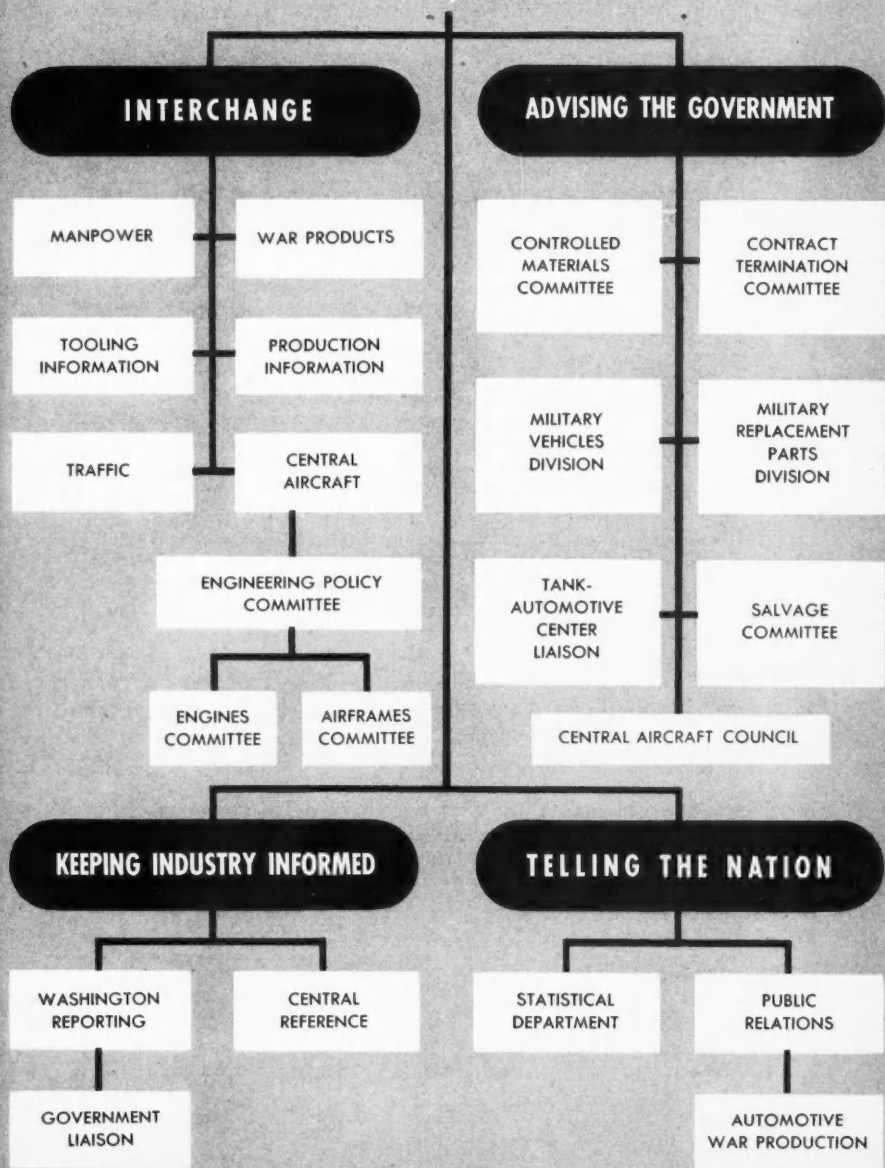
Period	Number of Cars Wrecked	Cars on Hand, End of Period*
First Half, 1942.....	1,108,000	490,000
Last Half, 1942.....	935,000	274,000
Total 1942.....	2,043,000	—
First Half, 1943.....	537,000	254,000
Estimated Last Half 1943.....	660,000	—
Total 1943 estimated.....	1,196,000	—

\*In stock February 28, 1942—918,607.

SOURCE: Scrap Processors Branch, Salvage Division, War Production Board.

# Automotive Council For War Production

## BOARD OF DIRECTORS







# Officers and Directors of the Automotive Council for War Production

---

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C. E. Wilson.....President, General Motors Corporation

## Managing Director

George Romney.....New Center Building, Detroit, Michigan

# Services of the Automotive

Organized by the Industry to Expedite Its

**Manpower Division**—Working committees of the Manpower Division seek solutions to problems of worker supply, utilization, morale, absenteeism, health and related problems. Pooling of facts and exchange of techniques are accomplished by means of the publication "Manpower Information".

**Washington Reporting Service**—Provides for participating companies comprehensive daily reports covering government developments affecting all phases of the industry's war effort. Information and interpretative reports are issued on subjects relating to materials controls, manpower, taxation, appropriations, profits regulations, other government acts and orders, regulations, administrative rulings and announcements. Full texts of important government documents are also provided by the service.

**Material Control Committee**—In the operation of the Controlled Materials Plan the War Production Board has relied heavily on the advice of the Council's Materials Control Committee. Specialists in the industry meet to discuss methods for distributing materials and present the industry's viewpoints to government agencies concerned with these activities. Relying on the industry's long experience, government officials have made many important modifications in their original procedures.

**War Products Division**—Organized to intensify on an industry-wide basis the interchange of production information among companies engaged in making or tooling up to make the same types of war products. The program serves to reduce trial and error operations to a minimum by pooling knowledge and techniques among production men on time-saving operations, product improvements and other developments which the individual companies have effected. At present the Product Committees are: (a) Artillery and (b) Tanks, Armored Cars and (c) Parts. The Aircraft Engines and Airframes Committees, formerly part of the War Products Division, have been transferred to the Central Aircraft Council.

**Contract Termination Committee**—Broad and vital problems involved in the termination of government contracts are the concern of this committee which was appointed to work out with government agencies standard procedures for obtaining payment for and clearing plants of materials and equipment so that prime contractors and subcontractors can speedily reconvert their plants from wartime to peacetime work.

**Central Aircraft Council**—An autonomous division of the Automotive Council for War Production wherein automotive companies manufacturing airplane engines, airframes and aircraft parts are joined by aircraft companies in the central area of the United States for the purpose of pooling their information and techniques and seeking joint solutions to common problems. Engineering, production, materials, and coordination of reports are fields in which the Central Aircraft Council works.



# Council for War Production

## Output of Armaments for the Fighting Forces

**Military Vehicles Division**—Manufacturers of motor trucks, buses, trailers, and parts are joined through the Military Vehicles Division to deal speedily and efficiently with joint problems. Service is provided on mutual problems of production, engineering, parts output, maintenance and distribution to the end of speeding output and eliminating bottlenecks resulting from shortages of materials and manufacturing facilities. Direct contact is maintained with Army Ordnance, O.D.T. and W.P.B. officials in Washington and Detroit. A special Washington bulletin service containing matters of interest to manufacturers of military vehicles is provided at frequent intervals. Operating under policies set by a governing board are committees on: Production, Education, Parts and Service, Engineering, Motor Coach and Truck-Trailers.

**Military Replacement Parts Committee**—Serves the Tank-Automotive Center of Army Ordnance as an advisory committee on problems related to the production and supply of repair parts for tanks, combat vehicles and military trucks.

**Tooling Information Service**—By means of weekly reports and personal contact, the Tooling Information Service keeps members advised concerning open capacities for the manufacture of gages, tools, dies, jigs and fixtures. The Service functions to help the users and the facilities get together speedily and efficiently.

**Traffic Division**—Handles mutual problems of loading, shipping rates, routes, classification and equipment, and performs other services related to movement by automotive companies of materials and war products. The Division represents the industry in contacting government agencies and regulatory bodies on traffic matters. By means of its publication "Traffic Topics" the Division distributes current transportation information to traffic managers in the industry.

**Public Relations**—The industry's war production is of direct concern to all Americans. At the same time, censorship necessarily tends to restrict the dissemination of facts by individual companies. The Council is carrying forward on behalf of all companies in the automotive manufacturing field a program designed to keep the public continuously informed of the industry's war progress. The Bulletin AUTOMOTIVE WAR PRODUCTION, news releases, booklets, articles, and speeches serve to tell the public of these accomplishments.

**Statistical and Research Service**—Collects and analyzes basic data respecting rate of war production progress, orders, deliveries, raw materials and other phases of the industry's war production program for the information of member companies, government and the public. The department serves as a convenient source for industry data required by government agencies. The staff also serves as a clearing house for inquiries received from member companies for information on materials and priorities orders. Staff work in connection with the salvage program of the industry is also provided by the statistical department.

# Wartime Highway Transportation Objectives

Conservation of vital highway transportation continues to be a major war problem, because (a) new rubber tires in adequate quantities will not become available for a considerable time, (b) gasoline supplies are insufficient, and (c) the existing rolling stock is diminishing without replacements from new production.

A nationwide conservation program, sponsored by the Office of Defense Transportation, is administered by the Highway Traffic Advisory Committee to the War Department, through the work of state highway traffic advisory committees.

Actively supporting this program are the following national organizations among others:

- American Automobile Association
- American Association of Motor Vehicle Administrators
- American Association of State Highway Officials
- Automotive Safety Foundation
- Chamber of Commerce of the United States
- Institute of Traffic Engineers
- International Association of Chiefs of Police
- National Conservation Bureau
- National Safety Council
- Office of Civilian Defense
- Public Roads Administration

The objectives are:

(a) To increase effective capacity of existing mass transportation facilities to the maximum by staggering hours in business, factories, schools and stores, and rescheduling of local bus, street car, and train services.

(b) To develop group-riding plans among automobile owners for essential personal transportation.

(c) To improve traffic regulations and control.

"... The Greatest Lesson of This War ..."

"Perhaps the greatest lesson of this war is that which is being taught the average citizen; namely, that the domestic economy of this country depends upon transportation, not only the transportation that is afforded by the railroads, airplanes, buses and trucks, but also the individual transportation which each family has in its automobile."

"This country cannot be taken off rubber and avoid a domestic collapse."

"It cannot be denied that this country moves on rubber, and it is a military necessity to keep the country's transportation system alive."

Excerpts from reports by William F. Jeffers, U. S. Rubber Director, War Production Board.

# 1943 Rubber Requirements Exceed New Supplies

Inventory, January 1, 1943	Long Tons	443,000
<b>NEW SUPPLIES</b>		
Imports, Natural Crude	54,000	
Synthetic		
Buna S.	218,000	
Buna N.	17,000	
Butyl.	11,000	
Neoprene	29,000	
Total synthetic	275,000	
Equal after conversion to crude equivalent	254,000	
Total New Supplies		308,000
<b>REQUIREMENTS</b>		
Military	286,000	
Trucks and Buses	101,000	
Passenger Tires	35,000	
Export including British Empire	101,000	
Canadian Use (Military, Industrial, Civilian)	50,000	
Other Indirect Military Uses	36,000	
Total Requirements		609,000
Total Supplies (New Supplies and Inventory)		751,000
Balance January 1, 1944, Crude and Synthetic		142,000
Net Decrease in Inventory, January 1 to December 31, 1943		301,000

SOURCE: "Progress Report No. 3", May 17, 1943. Office of the Rubber Director, War Production Board.

## 85 Percent of War Workers' Average Weekly Mileage is for Necessity Purposes

	Weekly Mileage	Percent
To and from work	82.2	56.5
Shopping	20.3	14.0
Other necessary (includes taking children to school, delivering farm and garden produce, miscellaneous business trips, etc.)	20.7	14.3
Total necessary	123.2	84.8
Non-necessary	22.2	15.2
Total—all purposes	145.4	100%

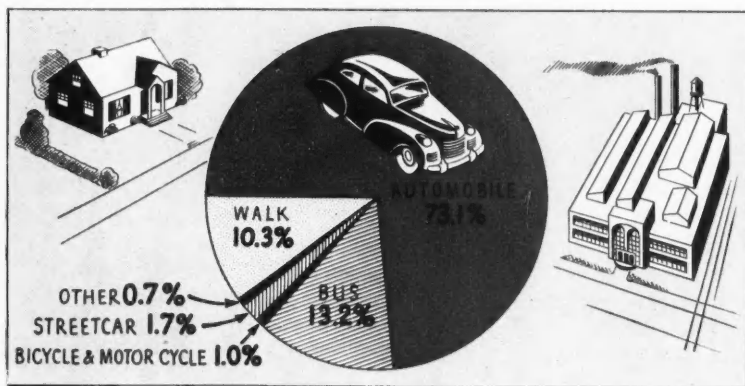
SOURCE: Survey of 94 war plants in 10 scattered states, by the State Highway Advisory Committees to the War Department, as of August-October, 1942.

## Workers in Smaller Cities More Dependent on Autos

	Number of War Plants Surveyed	Percent of Workers Using Cars to Work		Number of War Plants Surveyed	Percent of Workers Using Cars to Work
Detroit	381	61	Muskegon	16	68
Detroit Area			Bay City	9	70
Outside Detroit	99	89	Battle Creek	10	83
Detroit Area			Port Huron	6	63
Including Detroit	480	74	Ann Arbor	9	71
Grand Rapids	31	63	Monroe	5	91
Flint	7	83	Adrian	6	85
Saginaw	14	84	Grand Haven	9	82
Lansing	15	76	All Other	80	72
Pontiac	11	63			
Kalamazoo	14	84			
Jackson	27	75	All Plants	749	75%

SOURCE: "The Transportation of Materials and Workers in War Industries in Michigan"; Michigan State Highway Department.

## 73% of Employees Drive Autos to Work in 94 War Plants



## Automobiles Serve as Chief Means of Getting to Work

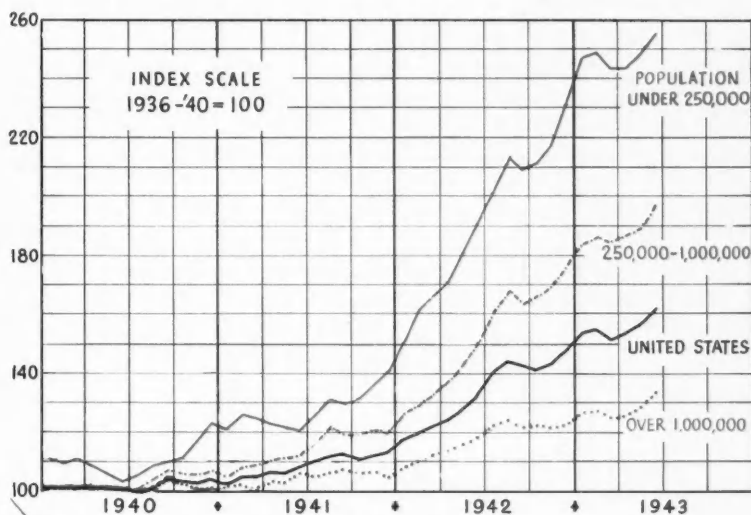
PERCENT USING EACH METHOD OF GETTING TO WORK  
Mass Transportation

	No. of Persons Surveyed	Date in 1942	Auto	Motor Bus	Other Mass Transport	Walk	All Other
94 war plants in 10 states ①.....	140,000	Aug. Sept. Oct.	73.1	13.2	2.4	10.3	1.0
Oakland, Calif.							
61 war plants.....	—	Nov.	65.5	—	26.4	—	8.1
127 establishments.....	—	Nov.	39.7	—	47.0	—	13.3
East Springfield, Ohio							
Westinghouse Elec. plant	—	—	55.0	—	20.0	—	25.0
Contra Costa County, Calif.—39 industries.....	—	June	76.7	—	3.7	—	19.6
Providence, R. I.....	34,775	July	78.6	—	10.2	—	10.9
Hagerstown, Md.—11 companies.....	—	July	73.0	—	12.0	—	14.0
Massillon, Ohio.....	8,166	Aug.	67.3	8.0	—	—	24.4
Fort Worth, Texas.....	40,000	Mar.	51.9	31.2	—	—	15.1
Wilmington, Dela.....	34,228	June	41.1	6.5	26.7	—	25.5
Beaks County, Pa.....	49,372	June	39.9	14.2	14.5	—	31.4
Fort Wayne, Ind.....	36,962	Oct.	49.3	—	28.0	—	20.5
Birmingham, Ala.....	101,000	Mar.	29.1	—	45.6	—	24.9
Buffalo, N. Y.....	32,826	Dec.	27.0	—	66.0	—	7.0
Chicago, Ill.—645 plants.....	317,765	June 1943	33.8	—	—	10.0	—
Chicago Suburbs—155 plants.....	102,977	June 1943	45.5	—	—	20.0	—

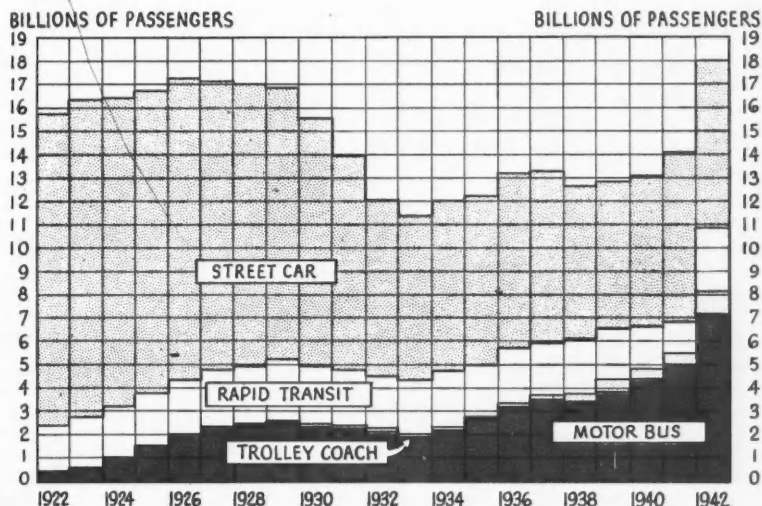
Note—Additional data on automobiles used in driving to work in Michigan cities on page 19.

SOURCES: ① Surveys by State Highway Advisory Committees to the War Department in Ala., Colo., Ind., Ill., Kan., Ohio, Ore., Utah, Va., and W. Va. Other surveys made by chambers of commerce, civilian defense councils, and other civic organizations.

## Transit Travel Increased Most in Small Cities



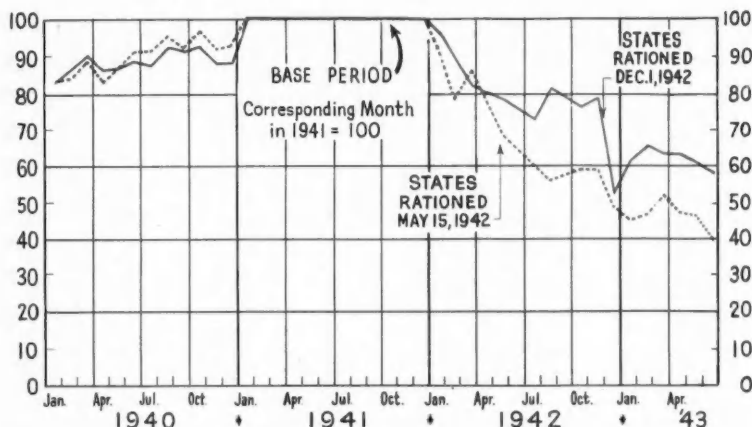
## Use of Public Transportation Facilities at Record Level



SOURCE: American Transit Association.

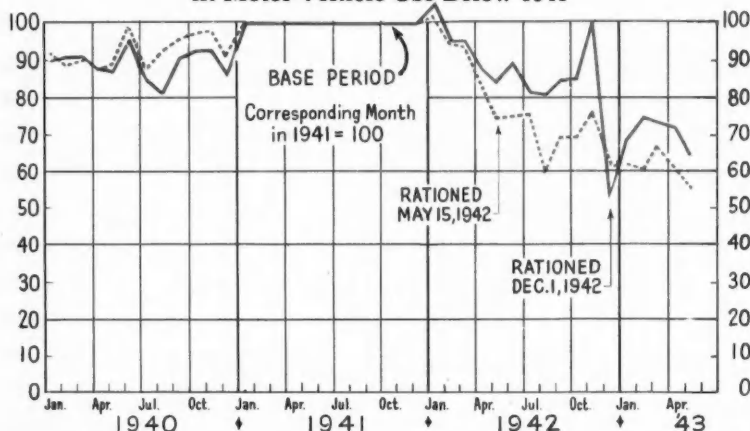
## Measures of Motor Vehicle Use

1943 Traffic Counts on Main Rural Roads Show  
40% to 60% Decline in Car Use Below 1941



Source: U. S. Public Roads Administration; automatic counts of motor vehicles passing about 600 stations located on main rural highways throughout the United States.

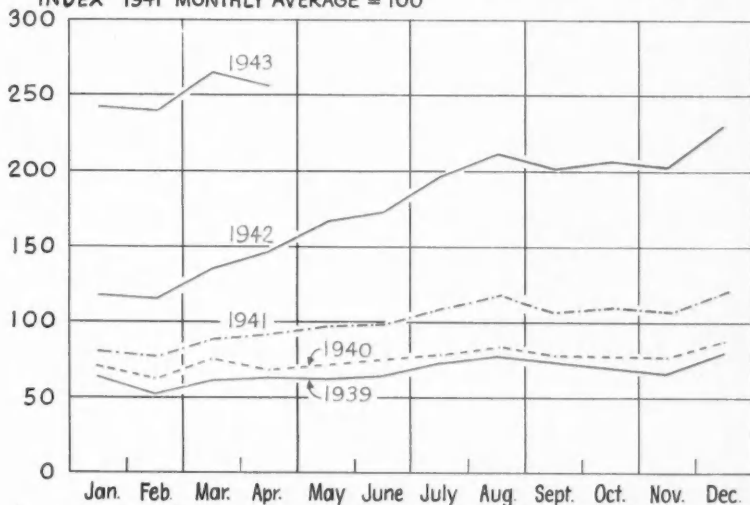
1943 Taxable Gasoline Sales Indicate Decline of 35% to 45%  
in Motor Vehicle Use Below 1941



Source: U. S. Public Roads Administration's compilation of Reports from State Gasoline Tax Authorities.

## 1943 Intercity Bus Travel 150% Above 1941

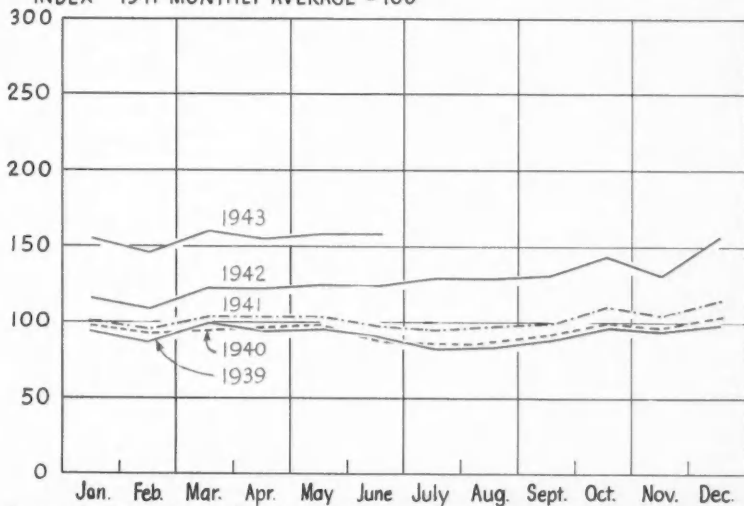
INDEX 1941 MONTHLY AVERAGE = 100



Source: Interstate Commerce Commission; passengers carried by intercity buses.

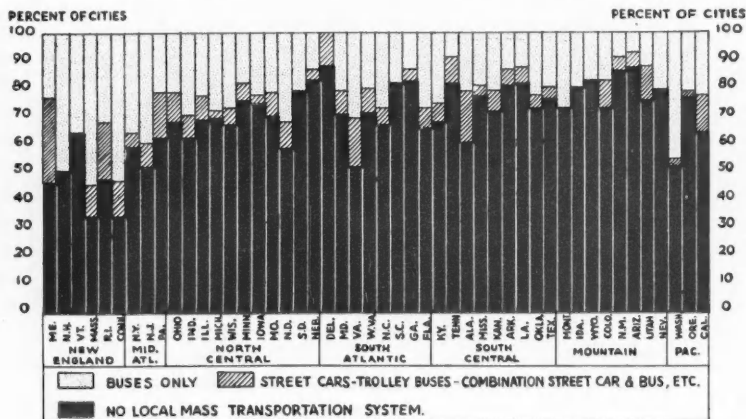
## 1943 City Bus and Street Car Use Up 60% Over 1941

INDEX 1941 MONTHLY AVERAGE = 100



Source: American Transit Association; passengers carried by city buses, street cars and rapid transit equipment.

## 2,211 U. S. Cities with Population of



## Motor Buses Serve Most Cities Having Local Mass Transportation

Cities by Population Group	Total Cities in U. S.		Number of Cities Having Local Mass Transportation Systems ②					③ No Local Mass Transportation	
	Num- ber	Popula- tion ①	Street Cars	Trolley Buses	Motor Buses	Buses Only	Net Total	No. of Cities	Popula- tion
1,000,000 & over	5	15,910,866	(a) 5	(b) 3	(c) 5	(d) ...	(e) 5	.....	.....
250,000— 1,000,000	32	14,284,473	28	20	32	4	32	.....	.....
100,000— 250,000	55	7,792,650	26	17	55	29	55	.....	.....
50,000— 100,000	106	7,343,917	39	14	101	67	106	.....	.....
25,000— 50,000	214	7,417,093	52	16	209	162	214	.....	.....
15,000— 25,000	291	5,461,429	50	1	284	237	287	4	65,475
10,000— 15,000	374	4,505,469	42	3	294	262	304	70	821,437
2,500— 10,000 ④	2,387	11,707,805	29	16	216	193	250	2,137	10,275,577
Total Urban	3,464	74,423,702	271	90	1,196	954	1,253	2,211	11,162,489

①—Population and number of places from Bureau of Census, 1940.

②—Figures in columns a, b, and c may include a combination of more than one type.

④—575 cities having only interurban service are considered as not having an adequate local mass transportation system. ④—807 cities estimated on basis of 1580 replies.

④—807 cities estimated on basis of 1580 replies.

Data for cities with population of 10,000 and up compiled from information furnished by "Bus Transportation."



# 11,162,000 Depend on Private Cars

	Number of Cities Without Local Mass Transp. Systems—Population Class (1)				Population Not Served	Per Cent Not Served	
	15,000 and Under 25,000	10,000 and Under 15,000	2,500 and Under 10,000 (4)	Total Urban (2)		Cities	Urban Popu- lation
Alabama.....			37	37	174,211	62.7	20.4
Arizona.....			14	14	71,749	87.5	41.2
Arkansas.....	1		42	43	198,772	81.1	46.0
California.....	1		99	100	561,523	59.9	11.5
Colorado.....	1		22	23	124,966	76.7	21.2
Connecticut.....			8	8	44,418	25.0	3.8
Delaware.....			7	7	26,928	87.5	19.3
Florida.....			41	41	185,493	58.6	17.7
Georgia.....			56	56	253,601	71.8	23.6
Idaho.....			18	18	67,091	69.2	38.0
Illinois.....	1	144	145	145	732,245	69.7	12.6
Indiana.....			57	57	272,501	58.2	14.4
Iowa.....			65	65	295,008	73.0	27.2
Kansas.....			41	41	192,315	64.1	25.5
Kentucky.....	2		36	38	202,465	67.9	23.8
Louisiana.....	2		42	44	240,863	81.5	24.6
Maine.....			12	12	63,966	46.2	18.6
Maryland.....	1		15	16	78,291	66.7	7.2
Massachusetts.....			35	35	226,318	28.7	5.9
Michigan.....	7		77	84	461,818	67.2	13.4
Minnesota.....	2		58	60	292,293	76.9	21.0
Mississippi.....	3		34	37	189,660	77.1	43.8
Missouri.....	4		57	61	311,455	70.1	15.9
Montana.....			17	17	76,756	73.9	36.3
Nebraska.....	4		26	30	158,083	83.3	30.7
Nevada.....			4	4	21,974	80.0	50.8
New Hampshire.....			8	8	45,075	44.4	15.9
New Jersey.....			87	87	441,630	48.9	13.0
New Mexico.....	3		17	20	120,627	90.9	68.4
New York.....		110	110	110	522,960	54.2	4.7
North Carolina.....	6		45	51	270,571	67.1	27.8
North Dakota.....			7	7	40,302	58.3	30.5
Ohio.....	1	4	115	120	660,854	64.5	14.3
Oklahoma.....	2		48	52	274,175	70.3	31.2
Oregon.....	1		25	26	119,235	76.5	22.4
Pennsylvania.....	1	7	201	209	1,088,514	58.9	16.5
Rhode Island.....			4	4	26,416	21.1	4.0
South Carolina.....	1		38	39	180,129	78.0	38.6
South Dakota.....	3		12	15	83,083	78.9	52.6
Tennessee.....	2		45	47	225,865	82.5	22.0
Texas.....	6	142	148	148	728,055	75.5	25.0
Utah.....	1		19	20	89,463	80.0	34.1
Vermont.....			9	9	48,034	64.3	39.0
Virginia.....	1		25	26	124,647	49.1	13.2
Washington.....			20	20	84,036	50.0	9.1
West Virginia.....			30	30	132,293	66.7	24.8
Wisconsin.....	2		58	60	278,623	64.5	16.6
Wyoming.....	2		8	10	53,139	83.3	56.8
<b>TOTAL.....</b>	<b>4</b>	<b>70</b>	<b>2,137</b>	<b>2,211</b>	<b>11,162,489</b>	<b>63.8</b>	<b>15.0</b>

(SOURCE: Survey by Automobile Manufacturers Association)

See footnotes on opposite page.

## 34 Large Cities Receive All Their Milk by Truck

CITY	Population*	Percent Received by Truck
Atlanta, Ga.	316,500	100
Akron, Ohio	275,000	100
Canton, Ohio	120,000	100
Chattanooga, Tenn.	140,000	100
Cincinnati, Ohio	460,000	100
Cleveland, Ohio	900,000	100
Dayton, Ohio	240,000	100
Des Moines, Iowa	168,500	100
Detroit, Mich.	1,750,000	100
Flint, Mich.	151,543	100
Fort Wayne, Ind.	125,000	100
Grand Rapids, Mich.	164,292	100
Hartford, Conn.	200,000	100
Indianapolis, Ind.	415,000	100
Kansas City, Mo.	431,113	100
Knoxville, Tenn.	114,900	100
Louisville, Ky.	384,348	100
Milwaukee, Wis.	602,000	100
Minneapolis, Minn.	510,000	100
Oakland, Cal.	354,750	100
Oklahoma City, Okla.	215,000	100
Omaha, Neb.	233,012	100
Peoria, Ill.	105,087	100
Portland, Ore.	375,400	100
Richmond, Va.	215,085	100
Sacramento, Cal.	111,000	100
San Diego, Cal.	333,000	100
Seattle, Wash.	450,000	100
St. Louis, Mo.	851,000	100
St. Paul, Minn.	295,848	100
Spokane, Wash.	135,000	100
Toledo, Ohio	290,349	100
Trenton, N. J.	126,000	100
Washington, D. C.	821,299	100
Baltimore, Md.	944,900	99
Los Angeles, Cal.	1,677,800	99
San Francisco, Cal.	714,800	99
Lowell, Mass.	104,000	98
Pittsburgh, Pa.	671,659	98
Springfield, Mass.	165,000	98
Worcester, Mass.	197,500	98
Fall River, Mass.	115,600	96
Providence, R. I.	253,504	90
Philadelphia, Pa.	2,124,467	84
Chicago, Ill.	3,496,971	67
New York City, N. Y.	7,573,000	64
Boston, Mass.	822,160	40

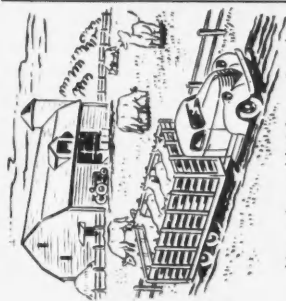
Survey by Automobile Manufacturers Association of Milk Producers Associations and other sources.

\*"Sales Management", October 10, 1942; population estimates as of May 1, 1942.





# MOTOR TRUCKS MOVE MOST OF LIVESTOCK FROM FARMS TO MARKETS

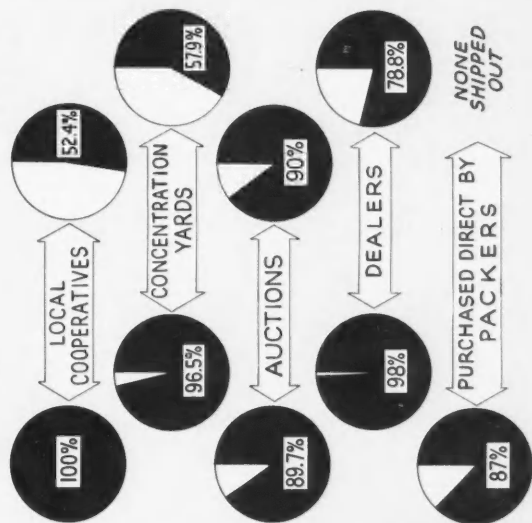


Nearly all Livestock  
Is Moved from Farms  
by Motor Truck



Percent of Cattle Hauled by Truck to and from  
Various Kinds of Intermediate Markets

RECEIVED AT: SHIPPED FROM:



Hogs, calves, sheep, and lambs  
are transported to market by  
truck in similar proportions.

Source: Chart is based on data  
Marketing Livestock in the Corn  
Belt Region, a cooperative  
Research project by the Agri-  
cultural Experiment Stations  
in 14 midwestern States, and  
the U.S. Dept. of Agriculture.

64 Percent Received  
by Truck at  
Terminal Public Markets





# Motor Trucks Haul Large Volume of



## 56 Percent of Livestock Receipts at Stockyards Hauled by Truck

	Drive-Ins (000)	Total Receipts (000)	Percent Trucked		Drive-Ins (000)	Total Receipts (000)	Percent Trucked
<b>Cattle</b>				<b>Sheep and Lambs</b>			
1935.....	7,645	14,986	51.0	6,619	25,567	25.9	
1936.....	8,615	15,711	54.8	6,486	24,652	26.3	
1937.....	8,002	15,135	52.9	6,640	24,979	26.6	
1938.....	8,245	14,076	58.6	7,024	25,598	27.4	
1939.....	8,587	13,896	61.8	6,939	23,817	29.1	
1940.....	9,241	14,077	65.6	7,247	22,754	31.8	
1941.....	10,491	15,228	68.9	7,754	22,817	34.0	
1942.....	11,480	17,979	63.9	9,100	28,211	32.3	
<b>Calves</b>				<b>Horses and Mules</b>			
1935.....	3,621	6,618	54.7	170	537	31.7	
1936.....	3,953	6,870	57.5	183	511	35.8	
1937.....	4,194	7,286	57.6	169	443	38.2	
1938.....	3,817	6,563	58.2	149	361	41.2	
1939.....	3,982	6,560	60.7	143	284	50.4	
1940.....	4,033	6,282	64.2	122	236	51.9	
1941.....	4,132	6,128	67.4	106	215	49.0	
1942.....	4,277	6,681	64.0	152	291	52.5	
<b>Hogs</b>				<b>Total Livestock</b>			
1935.....	11,940	19,562	61.0	29,994	67,270	44.6	
1936.....	16,993	26,399	64.4	36,230	74,343	48.9	
1937.....	14,931	22,666	65.9	33,936	70,509	48.1	
1938.....	16,313	24,801	65.8	35,549	71,399	49.8	
1939.....	19,095	27,974	68.3	38,741	72,532	53.4	
1940.....	23,553	34,556	68.2	44,196	77,904	56.7	
1941.....	21,607	30,659	70.5	44,090	75,047	58.7	
1942.....	23,877	34,415	69.4	48,886	87,577	55.8	

SOURCE: U.S. Department of Agriculture.

Number of markets varies from 62 to 68.

## 89% of Live Poultry Receipts at Chicago Shipped by Truck

### CARLOT EQUIVALENTS NEW YORK CITY

	Truck	Rail Total	% Trucked
1935.....	3,157	5,525	36.4
1936.....	4,747	4,403	51.9
1937.....	5,624	3,860	59.3
1938.....	5,845	3,114	65.2
1939.....	4,995	2,652	65.3
1940.....	5,435	2,475	68.7
1941.....	5,376	1,655	76.5
1942.....	5,914	1,570	79.0

### CHICAGO

	Truck	Rail Total	% Trucked
1935.....	3,462	512	87.1
1936.....	3,458	685	83.5
1937.....	3,420	800	85.1
1938.....	3,585	638	84.8
1939.....	4,076	599	87.2
1940.....	4,179	403	91.2
1941.....	4,278	343	92.6
1942.....	4,154	515	89.0

# of Farm Products to Market



## 1942 Truck Receipts of Milk, Cheese and Eggs Higher Than 1941

	HAULED BY TRUCK			
	Number		Percent	
<b>Fruits and Vegetables (Carlots)</b>	1941	1942	1941	1942
Boston	15,303	13,858	26.1	27.6
Chicago	21,348	17,033	32.5	25.8
Kansas City	5,149	4,040	32.9	26.7
Los Angeles	72,410	60,410	85.2	81.1
New Orleans	5,574	4,816	48.9	43.4
New York	75,065	69,879	38.2	35.0
Philadelphia	33,512	30,086	46.2	45.7
Pittsburgh	4,988	4,793	15.4	15.0
Oakland	—	7,854	—	71.7
St. Louis	6,977	5,886	26.8	23.4
San Francisco	17,256	16,536	69.2	66.5
Washington, D. C.	4,044	6,270	38.2	47.1
<b>Butter (1000 lbs.)</b>				
Boston	6,027	5,837	7.6	7.7
Chicago	148,770	134,114	53.8	54.3
Los Angeles	—	26,101	—	48.1
New York	39,521	41,713	15.7	19.0
Philadelphia	4,073	5,333	5.5	7.2
San Francisco	26,280	22,989	69.4	52.2
<b>Milk (40 qt. units, thousands)</b>				
Boston	2,603	2,876	40.5	40.2
New York	24,942	25,319	64.3	64.0
Philadelphia	7,631	7,872	85.7	84.3
<b>Cream (40 qt. units, thousands)</b>				
Boston	99	91	16.4	15.6
New York	657	587	42.3	41.8
Philadelphia	162	170	52.8	52.0
<b>Cheese (1000 lbs.)</b>				
Boston	1,747	2,171	11.1	13.2
Chicago	22,592	23,023	65.6	36.5
Los Angeles	—	7,273	—	34.1
New York	1,694	3,722	1.9	3.7
<b>Eggs (1000 Cases)</b>				
Boston	641	876	52.0	67.0
Chicago	3,260	3,461	64.8	66.3
Los Angeles	—	1,138	—	92.0
New York	1,967	2,272	32.6	39.1
Philadelphia	652	707	55.3	64.5
<b>Dressed Poultry (1000 lbs.)</b>				
Boston	13,110	11,944	19.0	18.2
Chicago	65,715	54,925	64.6	54.1
Los Angeles	—	10,433	—	37.1
New York	119,419	137,424	51.2	54.3
Philadelphia	—	6,260	—	20.2
San Francisco	8,149	9,520	55.9	33.5

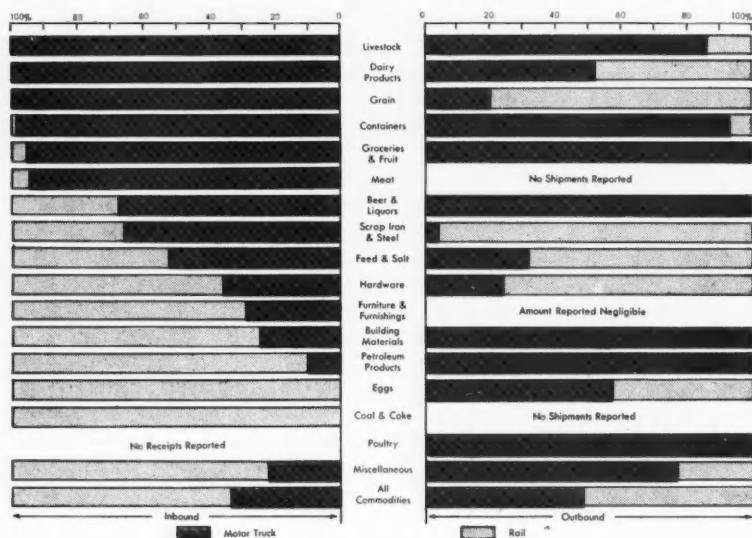
Source: U. S. Department of Agriculture.

# Small Business Firms Ship Nearly Half

Source: Transportation Surveys by State Agricultural Colleges Covering 1300 Firms in 15 Counties During One Week, from May to August, 1942

Survey Area	Inbound (Tons)			Outbound (Tons)		
	Rail	Truck	% Truck	Rail	Truck	% Truck
Martin Co., Minn.....	1,820	875	32.5	1,421	1,266	47.1
Carroll Co., Mo.....	301	619	67.3	138	634	82.2
Moniteau Co., Mo.....	426	307	41.9	28	251	89.8
12 Counties, S. D.....	2,420	2,681	52.5	1,198	587	32.9
<b>Total.....</b>	<b>4,967</b>	<b>4,482</b>	<b>47.5</b>	<b>2,785</b>	<b>2,738</b>	<b>49.6</b>

## 47 Percent of Products are Shipped by Truck in Martin Co., Minnesota



Source: Survey by the Agricultural College, University of Minnesota.



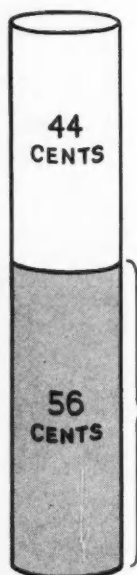
# Half Their Freight by Motor Truck

Trucks Haul Half of Inbound and Third of Outbound Shipments in 12 South Dakota Counties



Source: Survey of 12 typical counties of South Dakota by the South Dakota State College

# Automotive Industry's War Effort is Shared



TO  
SUBCON-  
TRACTORS  
AND  
VENDORS

56 CENTS OF EVERY \$1 RECEIVED  
GOES TO SUBCONTRACTORS  
AND VENDORS



## Majority of Parts are Subcontracted

War Products	Number of Parts	Parts Furnished by Subcontractors	
		Number	Percent
Gun .....	103	95	92
Tank .....	3,719	2,224	60
Machine Gun .....	292	127	43
Aerial Torpedo .....	5,112	4,999	98
Anti-Aircraft Gun .....	507	446	88
Aircraft Cannon .....	267	264	99
Aircraft Engine .....	972	591	61
Tank .....	4,537	3,268	72
Pontoon .....	296	205	69
Truck .....	1,653	1,127	68
Marine Engine .....	417	273	65
Marine Engine .....	516	333	65
Gun .....	484	291	60
Gun .....	466	231	50
Bomber Fuselage .....	11,542	5,881	51

37%

35%

## 63% OF SUBCONTRACTORS EMPLOY LESS THAN 500 EMPLOYEES

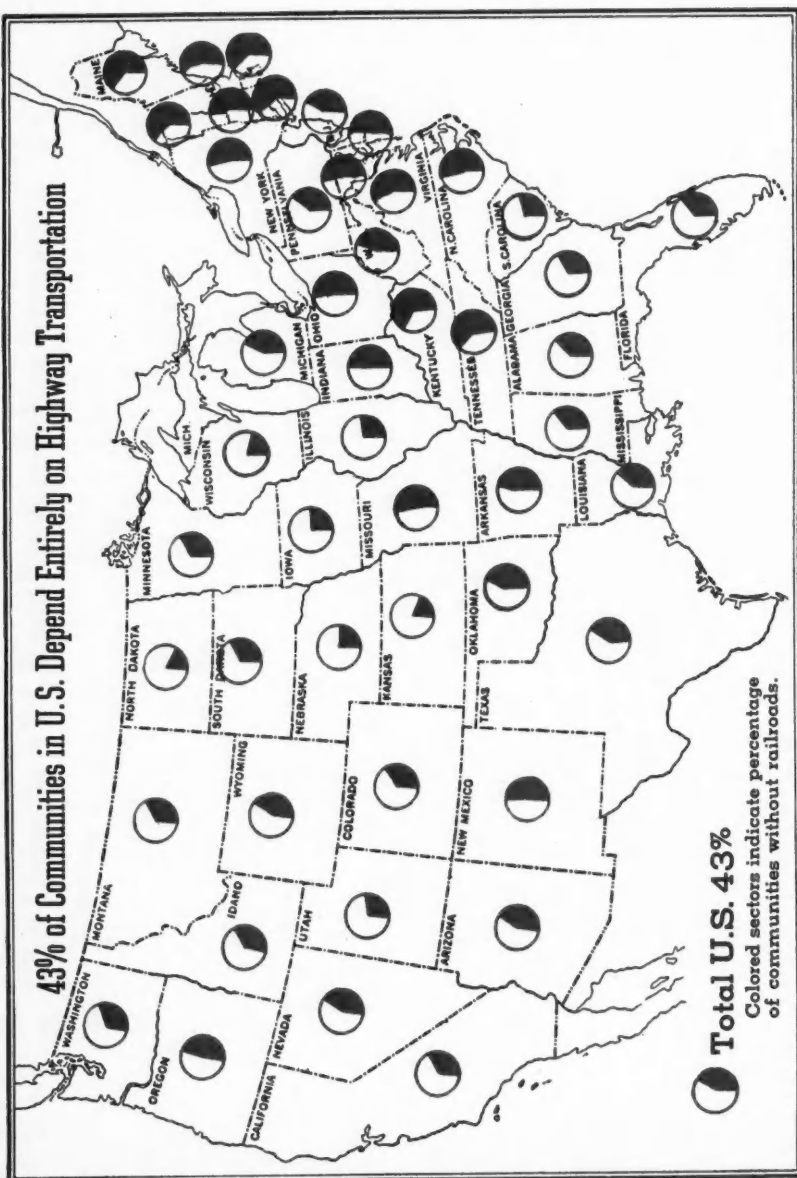
## Contracted in Typical War Products

	Number of	Parts Furnished by Subcontractors	
War Products	Parts	Number	Percent
Smoke Screen Trailer	780	518	66
Restricted Item	563	308	55
Air Raid Siren	813	590	73
Aircraft Landing Gear	520	349	67
Marine Tractor	1,010	615	61
Restricted Item	28	5	18
Engine	403	268	67
Engine	95	84	88
Bomber Wing	3,621	1,530	42
Truck	3,448	2,656	77
Restricted Item	29	0	0
Gyro-Compass	406	303	75
Fire Service Trailer	1,076	776	72
Five Items*	5,205	4,825	93

\*Jeeps, Ammunition, Powder Hoists, Shells, Trailers.



# 43% of Communities in U.S. Depend Entirely on Highway Transportation



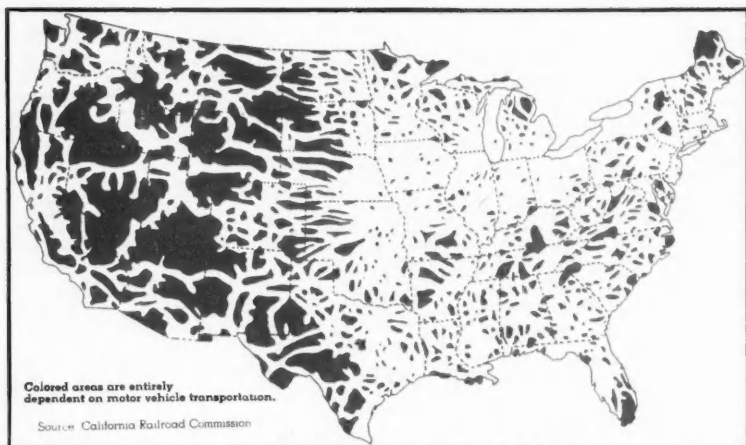
# 54,000 U.S. Communities Depend Entirely on Motor Vehicles

(1940 Analysis of Communities and Population Indicating Number Without Railroads)

	COMMUNITIES			POPULATION		
	Total Communities	Not served by RR Number	% of all	1940 Non-farm Population	Not served by RR Population	% of all
Ala.....	2,847	1,166	41.0	1,494,297	147,206	9.9
Ariz.....	901	383	42.5	385,239	37,515	9.7
Ark.....	3,160	1,462	46.3	838,380	101,606	12.1
Calif.....	5,533	1,868	33.8	*6,271,104	300,263	4.8
Colo.....	2,461	882	35.8	871,604	54,099	6.2
Conn.....	746	457	61.3	1,613,617	142,894	8.9
Del.....	275	135	49.1	220,832	23,033	10.4
Fla.....	2,600	912	35.1	*1,593,652	133,063	8.3
Ga.....	3,216	1,176	36.6	1,759,757	128,383	7.3
Idaho.....	1,316	481	36.6	*323,742	31,560	9.7
Ill.....	4,402	1,181	26.8	*6,931,473	129,022	1.9
Ind.....	3,184	1,580	49.6	2,615,145	100,149	3.8
Iowa.....	2,232	587	26.3	1,621,500	36,707	2.3
Kans.....	2,190	426	19.5	1,196,250	32,921	2.8
Ky.....	4,494	2,962	65.9	*1,586,083	199,027	12.5
La.....	2,982	1,179	39.5	1,513,498	74,216	4.9
Me.....	1,880	1,175	62.5	681,776	187,585	27.5
Md.....	1,976	1,069	54.1	1,578,184	137,959	8.7
Mass.....	1,708	913	53.5	*4,226,069	287,268	6.8
Mich.....	3,662	1,540	42.1	*4,390,932	162,519	3.7
Minn.....	2,487	851	34.2	1,886,860	58,631	3.1
Miss.....	2,486	869	35.0	783,902	60,529	7.7
Mo.....	4,203	2,235	53.2	2,666,020	136,655	5.1
Mont.....	1,658	580	35.0	383,749	32,358	8.4
Nebr.....	1,348	337	25.0	820,387	13,610	1.7
Nev.....	597	248	41.5	94,622	12,214	12.9
N. H.....	728	419	57.6	429,775	56,866	13.2
N. J.....	1,823	797	43.7	4,027,946	281,077	7.0
N. M.....	1,166	599	51.4	354,704	104,867	29.6
N. Y.....	5,347	2,883	53.9	*12,788,550	525,178	4.1
N. C.....	3,544	1,895	53.5	*1,920,426	198,960	10.4
N. D.....	1,071	197	18.4	314,437	7,754	2.5
Ohio.....	4,027	2,074	51.5	*5,841,955	497,911	8.5
Okla.....	2,171	948	43.7	1,409,693	77,471	5.5
Ore.....	1,945	941	48.4	833,401	62,244	7.5
Pa.....	9,276	4,066	43.8	*8,997,115	835,435	9.3
R. I.....	293	183	62.5	703,553	129,212	18.4
S. C.....	1,903	556	29.2	986,492	85,933	8.7
S. D.....	985	343	34.8	336,291	13,380	4.0
Tenn.....	3,196	2,023	63.3	1,643,897	176,461	10.7
Texas.....	6,973	2,918	41.8	*4,260,066	316,699	7.4
Utah.....	1,192	380	31.9	455,958	83,010	18.2
Vt.....	653	410	62.8	253,719	60,900	24.0
Va.....	4,636	2,567	55.4	1,694,414	259,069	15.3
Wash.....	2,613	874	33.4	*1,401,065	122,614	8.8
W. Va.....	4,107	1,832	44.6	1,370,522	139,365	10.2
Wisc.....	2,646	558	21.1	2,265,398	111,871	4.9
Wyo.....	777	336	43.2	178,068	25,948	14.6
D. C.....	1	0	0	663,091	0	0
Total	125,617	54,453	43.3	101,479,210	6,933,217	6.8

\*Preliminary

## Colored Areas Are 25 Miles or More from Railroad



### "War Production is Dependent Upon an Economy Geared to Rubber"—Truman Committee

"Surveys of the automobile associations and the Government show that about 55 percent of the mileage driven each year is for necessary purposes and cannot be eliminated without placing burdens on our common carriers which they simply cannot carry. Necessary driving is defined in this instance as including all driving in connection with earning a living, getting groceries, driving children to school and back, and going to church. Of course, we may get to a point where people will simply have to walk, use makeshifts, or do without. But, if so the dislocation and loss of time inherent in doing without cars, will greatly hamper the war program itself. War production is dependent upon an economy geared to rubber.

"The hard fact facing the Office of Defense Transportation today is that private automobiles run about nine times more passenger miles per year than buses and railroads combined. If travel by passenger automobile were stopped altogether, buses and trains, already loaded close to capacity, could not take on more than a fraction of the extra load."

"... The second hard fact is that many areas in the country are not serviced by any public means of transportation, and what is even more crucial, military considerations have dictated that many of the munitions and weapons of war are to be made in factories located well outside city limits and off the routes of the common carriers." (Page 37.)

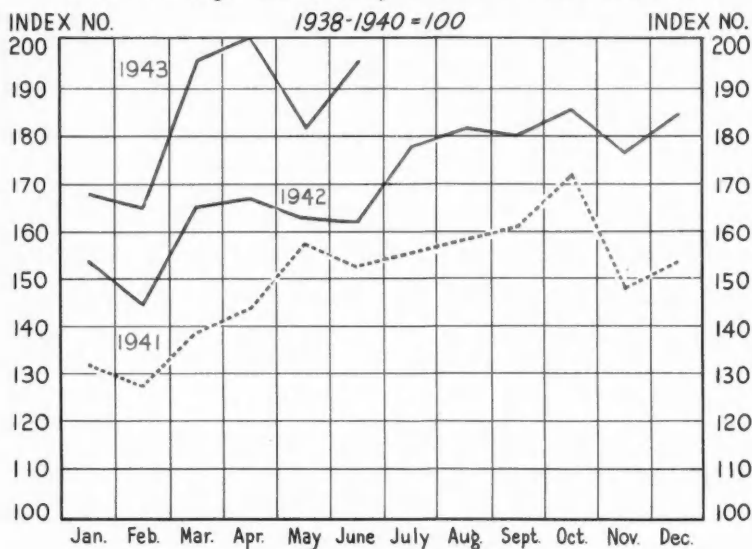
Excerpts from the "Second Annual Report of the Special Committee Investigating the War Program," Senate Res. 71.

# Large Truck Fleets Owned by Shippers

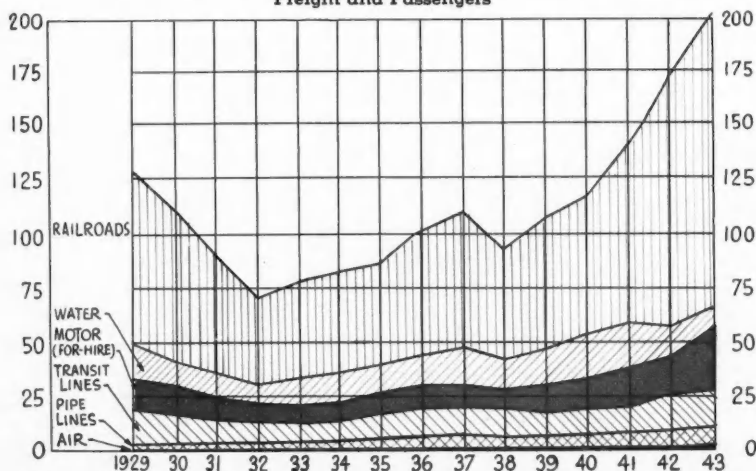
	No. of Trucks	Semi- Trac- tors	Trail- ers	Cars		No. of Trucks	Semi- Trac- tors	Trail- ers	Cars
Bell Tel. Co's.	22,100		5,500	5,775	Standard Oil Co., Ohio	407	162	177	367
Railway Express Agency	13,428	496	1,126	349	Imperial Oil Ltd.	474	93	92	11
Standard Oil Co., N. J.	12,000			4,000	So. Calif. Edison Co.	565		196	450
Nat'l Dry Products Corp.	11,000				Langendorf Un. Bk.	554	3	13	18
Standard Oil Co., Ind.	8,165			2,690	R. H. Macy & Co., Inc.	545	6	10	16
The Borden Co.	7,034		730	720	Consol. Laundry's Corp.	540	5	4	21
Socony-Vacuum Oil Co.	4,064			2,037	Brink's, Inc.	536			37
General Baking Co.	3,861	47		84	Phila. Electric Co.	523	3	11	323
Hertz Drive-Itself Sta.	3,152	15	20	497	American Ice Co.	512	10	14	2
United Parcel Service	2,756	47	95	2	Allied Stores Corp.	500			25
Swift & Co.	2,600	200	260	3,000	Tide Wtr. Assoc. Oil Co.	493	4	47	334
Ward Baking Co.	2,304	4	6		Equitable Auto Co.	477	4	115	465
Armour & Co.	2,160	76	105	1,336	Georgia Power Co.	470	3	107	613
Purity Bakeries	2,118	26	26	21	Columbia Baking Co.	471		7	5
Standard Brands, Inc.	2,120	8	11	412	Drake Bakeries Inc.	461			16
Quality Bakers of Amer.	2,000	10	30	150	Lever Bros. Co.	442			717
Kraft Cheese Co.	1,814	30	33	594	Sears Roebuck & Co.	349	88	149	46
Middle West Service Co.	1,843		376	978	E. I. duPont deNem. Co	390	33	129	438
National Biscuit Co.	1,800	11	9		F&M Schaefer Brg. Co.	404	17	30	124
Associated Transp., Inc.	484	1,287	1,720	62	P. Ballantine & Son	404	13	21	267
Pac. Gas & Elec. Co.	1,750	3	354	1,195	Wagner Baking Corp.	412	5	5	16
Shell Oil Co., Inc.	1,578	124	111	1,435	Helms Bakeries	407		8	7
Jewel Tea Co., Inc.	1,675			96	Comm. Motor Frgt., Inc.	169	225	419	25
Metrop. Distrib., Inc.	1,560			14	U. S. Tobacco Co.	371		4	77
Sheffield Farms Co.	1,400	45	121	142	Brooks Trans. Co., Inc.	263	106	96	12
Bowman Dairy Co.	1,325	24	130	97	So. Counties Gas Co.	363	1	10	179
Standard Oil Co., Calif.	1,285	58	83	1,026	Geo. A. Hormel & Co.	350	11	12	85
Gulf Oil Corp.	1,110	190	201	1,391	American Stores Co.	328	20	31	349
Sinclair Refining Co.	1,120	78	240	337	N. Y. Pwr. & Lgt. Corp.	324	2	87	83
Shell Oil Co.	1,108	87	134	931	Fischer Baking Co.	309	5	5	9
Omar, Inc.	1,183	8	7	54	Richfield Oil Corp.	285	29	43	107
Gem'l Ice Cream Corp.	1,177	6	9	192	Postal Tel.-Cable Co.	311		192	24
Hathaway Bakeries, Inc.	1,176		21	12	City Ice & Fuel Co.	287	14	14	11
Interstate Bakeries Corp.	1,109	24	33	6	Southern Cotton Oil Co.	295		57	76
Grand Union Co.	1,097	14	10		Burns Bros.	281	5		19
Firestone Tire & Rub. Co.	1,049	15	72	1,216	Hoffman Beverage Co.	266	13	24	171
Atlantic Co.	1,000	1		200	St. Louis Dairy Co.	260	18	27	6
Atlantic Refining Co.	869	128	185	602	John F. Trommer, Inc.	264	13	26	10
Safeway Stores, Inc.	493	487	617		L. Bamberger & Co.	276	4	10	5
Amer. Gas & Elec. Co.	947			992	Motor Haulage Co., Inc.	194	77	130	13
Keechin Freight Lines	281	655	969	26	New England Trans. Co.	162	108	158	170
Cons. Edison System	905	2	14	365	Continental Oil Co.	252	8	92	515
Pure Oil Co.	850	55	60	1,000	Consol. Rendering Co.	245	13	13	62
Union Oil Co.	865	40	183	182	National Refining Co.	199	61	88	21
Com. & South'n System	808			3,965	Fed. Water & Gas Corp.	250			310
Gordon Baking Co.	760	37		8	Holland Furnace Co.	248	2	2	
Fairmont Creamery Co.	779		86	172	Cin. Gas & Elec. Co.	248	2	103	319
Nat'l Linen Serv. Corp.	765			32	Marshall Field & Co.	241	9	30	16
Sun Oil Co.	503	248	275	500	Spaulding Bakeries	236	8	9	10
Freihof Baking Co.	708	5	5	13	Atlanta Laundries, Inc.	241	2	2	2
Coca-Cola Bot'l'g Co., N. Y.	708			8	Roadway Express, Inc.	83	153	164	5
Cities Serv. Oil Co., Del.	643	44	50	332	CCC Highway, Inc.	42	192	498	
Kroger Groc. & Bkg. Co.	190	476	710	20	All. Nickles Baky., Inc.	223	6	7	3
American Bakeries Co.	650	10	10	20	Petrol. Heat & Pwr. Co.	231		24	8
Loose-Wiles Biscuit Co.	655	3	3	2	American Can. Co.	100	130	300	475
Goodyear Tr. & Rub. Co.	616	15	112	945	Donaldson Baking Co.	230			
Pac. Gamble-Rob. Co.	616		81	79	Huber & Huber Mtr. Exp.	96	120	124	3
B. F. Goodrich Co.	573	41	68	74	Foremost Dairies, Inc.	207	5	5	11
Ohio Oil Co.	574	22	174	483	So. Calif. Frgt. Lines	148	63	130	22
D'rym'n's Lg. Coop. As.	571	19	37	235	Gilmore Oil Co.	186	20	31	176
Humble Oil & Ref'g Co.	575	12	168	769	The Diamond Match Co.	168	37	50	56
Western Union Tel. Co.	580			320	Ohio Edison Co.	202	1	72	240
The Cudahy Pack'g Co.	550	25	35	310	Stone's Express Inc.	180	23	55	
Golden State Co., Ltd.	569	5	13	16	Carolina Pwr. & Lgt. Co.	196	6	14	119
					Western United Dry Co.	189	12	18	20
					General Foods Corp.	200			1,400

The shippers listed above operate 166,647 trucks, 7,236 tractors, 19,739 trailers and 52,083 cars. It is not a complete list of all fleets with more than 200 vehicles. Survey as of May, 1943 by Automobile Manufacturers Association.

## 1943 Tonnage Hauled by For-Hire Trucks Gains



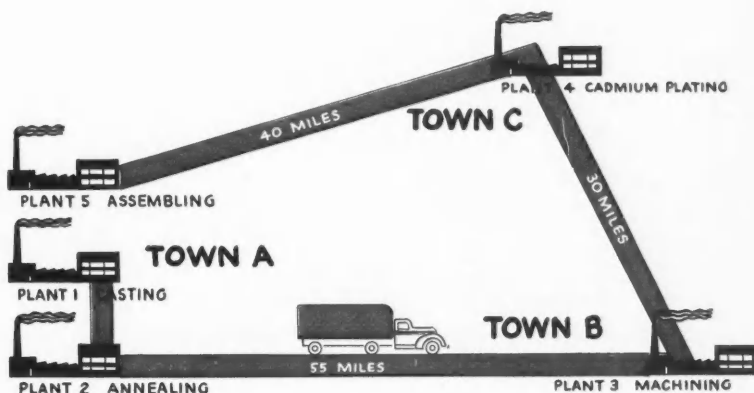
## Transportation Trends by Various Agencies Freight and Passengers





# War Assembly Line 125 Miles Long

Truck links five plants in three towns



By means of a truck, an automotive prime contractor in Michigan extended his assembly line 125 miles to include facilities of four subcontractors in three towns.

At a foundry (Plant 1) in town A, the truck picks up 20,000 small iron castings, hauls them to an annealing plant, (Plant 2) in the same town. Loaded with 20,000 annealed pieces, the truck drives 55 miles to Plant 3 in town B, where the parts are to be machined.

After unloading, the truck is loaded with 20,000 machined units for a 30 mile trip to Plant 4 in town C, where the parts are to be cadmium plated. Picking up a load of 20,000 finished pieces the truck returns 40 miles to town A. Here in the plant of the prime contractor (Plant 5), the pieces are used in the assembly of shells. Continuous operation of all five plants is dependent on the uninterrupted service of a truck.

# Flexibility and Speed of Motor Truck

## Typical Examples of Wartime Truck Services as Reported by

**Aircraft Parts Producer, Bendix, N. J.**—"In line with the recent ODT orders regulating truck operation, we have adopted a policy of only using long distance trucks when absolutely necessary. However, there are some points where the time element is so important to us that we feel we must use trucks just as long as we can possibly get the service:

1. We have subcontractors operating in North Tonawanda, N. Y., and Rochester, N. Y. Two of these manufacture a subassembly which is forwarded to us completely assembled into our unit. It is important that we get these sub-assemblies as soon as possible, for the reason that a shortage holds up our assembly line. We are using motor truck on this movement and are getting second morning delivery (less truckload) compared to fourth morning delivery via rail.
2. We have a movement of truck-load quantities of magnesium ingot from the — company, Midland, Mich. We are getting third morning delivery via truck, compared to fourth and sometimes fifth morning via rail.
3. We receive a tremendous amount of steel from the Pittsburgh area. 95% of this moves via rail. However, when we need a particular alloy specification in a hurry, we route via motor truck. We receive second day delivery against fifth day via rail."

**Aircraft Manufacturer, East Hartford, Conn.**—"On certain material moving to us from distances up to nine hundred and eighteen miles, it is at this time imperative that we use trucks. I have checked rail services many times with various carriers and they cannot, in many instances, perform the services required to keep a smooth flow of supplies moving to our production lines."

**Propeller Manufacturer, Toledo, O.**—"We have one particular movement from our plant to a subsidiary plant, a distance of 500 miles. This movement is made for the simple reason that the machine doing the particular operation is broken down in our plant and the work must be sent to the subsidiary plant to be completed and reforwarded back to us.

"The time involved in the transportation of this material is a great factor. We use trucks in this haul because of the speed obtained by motor carrier in expediting delivery on this movement, both from our plant and back again. We obtain a 24-hour service from origin to destination via truck, and the same movement via rail is four days at best."

**Aircraft Manufacturer, Detroit, Mich.**—"Time, today, in the delivering of Aircraft parts is a very important factor. Our experience shows that the Overland Trucking Companies are the fastest and most reliable type of transportation now available.

"We have found that on shipments originating in Detroit, that responsible trucking concerns have been able to give us third morning delivery in eastern aircraft plants in New Jersey and Connecticut."

**Aircraft Manufacturer, Paterson, N. J.**—"We could write at length of the hundreds of times when we called for special truck service from points farther distant than 300 miles, an example being a twenty-hour run from Cleveland with aluminum ingots which eliminated the necessity of shutting down our foundry and closing our production lines, a feat impossible by any other transportation medium. We cannot do without this type of service and will appreciate your efforts to retain the speed and flexibility which now exists in the trucking industry."

**Construction Company, Fort Worth, Texas**—"We are engaged in construction of defense plants, and have been using the truck lines on practically all our LCL freight for the reason that time is a big element in construction of these defense industries. The truck lines' time in transit being far superior to any service the rails so far have been able to give compels us to use the truck service in order to meet this time element."

# Trucks Keep War Plants Operating

ed by War Plants to the American Trucking Association

**Factory Equipment Manufacturer, Houston, Texas.**—"This company is producing one hundred percent for the War Production Program and like others in the same category, our customers—powder plants, arsenals, high octane gasoline distillate plants, alcohol plants, chemical plants, synthetic rubber plants, etc.—are urgently in need of the equipment they have on order with us, and it naturally behooves the over-all program for us to ship by the quickest, safest, and most convenient way. Over a period of eleven years' operation, we have found that the common carrier motor freight lines give us and our customers far better service than any other shipping method known to us.

"Please be assured that we have no financial or personal interest in any transportation agency except for the service rendered. The reasons we ship the bulk of our freight by truck are as follows:

1. It has been our experience that we can obtain traffic information from the motor freight lines with less difficulty. This refers to such information as classification of freight, routing, and rates.
2. It has been our experience that pick up and delivery service by motor freight lines is much better.
3. Last, but the most important reason, is that motor freight common carriers transport our shipments to their destination in less time."

**Machine Tool Manufacturer, Cincinnati, O.**—"There is no railroad or combination of railroads in the United States that can take a machine from our plant and put it into Milwaukee overnight, and this trucking service was a lifesaver to this particular industry which was making war material."

**Welding Equipment Manufacturer, Bay City, Mich.**—"A number of items we manufacture require special processing at plants over 300 miles from Bay City. We have been getting over-night service to and from these plants by truck on approximately 250 tons of freight a month. By rail this would take a week or 10 days to move."

**Tank Parts Manufacturer, Louisville, Ky.**—"We are shipping small parts and sub-assemblies for light and medium tanks to the various tank manufacturers and to the tanks in the field. We have found truck transportation the most desirable due to the fact that we can save several days delivery time by shipping full truck loads direct to destination.

"We are furnishing thousands of parts for the — company in Schenectady, N. Y. If we load a van Monday afternoon it is delivered in Schenectady to the customer early Wednesday morning.

"It is impossible for us to anticipate shipments and cover this delay. We cannot purchase raw materials for the fabrication of these parts until an order with the proper priority to purchase raw materials is on our desk. Several weeks are required to secure the raw materials. By this time the factories assembling the tanks are ready for our parts and they must be delivered to them with the least possible delay."

**Transmissions and Gears Producer, New Haven, Conn.**—"Our firm is engaged 100 percent in the manufacture of marine transmissions and reduction gear units used in motor torpedo boats, mine sweepers, sub chasers, landing boats and many other boats for army, navy and coast guard. Most of our finished units are shipped by truck, particularly to Cleveland and Detroit. . . . The pick-up is made with a 'through' truck and is on its way to Cleveland and Detroit within an hour, giving us second morning delivery in Cleveland and third morning delivery in Detroit direct from our platform to our customer's platform without change.

"Our entire set-up is such that we must clean our decks every night to make room for the next day's assembly and testing. Freight requires a mid-afternoon pick-up and three transfers and takes just twice as many days door to door. The trucking company brings back our empty packing cases with our shipping cradles, without breakage or delay. They also bring back complete units for hurry-up overhaul."

# Operating and Financial Data on For-Hire Trucks

SOURCE: Interstate Commerce Commission; this table is not to be considered official statistics since some data have been partly estimated.

1941	INTERCITY			LOCAL			Grand Total ④
	Class I ①	Class II & III	Total	Class I	Class II & III	Total	
<b>Carriers:</b>							
Number.....	1,019	16,095	17,114	156	5,217	5,373	22,487
Percent.....	6.0	94.0	100.0	2.9	97.1	100.0	—
<b>Power Units:</b>							
Number.....	46,570	70,770	117,340	11,247	28,076	37,323	154,663
Percent.....	39.7	60.3	100.0	30.1	69.9	100.0	—
<b>Trailers and Semitrailers:</b>							
Number.....	36,771	26,245	63,016	5,055	4,347	9,402	72,418
Percent.....	58.4	41.6	100.0	53.7	46.3	100.0	—
<b>Vehicle-miles:</b>							
Number (000).....	2,121,249	1,980,995	4,102,244	③ 25,835	312,871	—	—
Percent.....	51.6	42.4	100.0	—	—	—	—
<b>Tons Carried:</b>							
Number.....	75,530,917	75,479,804	151,010,721	③ 2,996,478	33,232,790	—	—
Percent.....	50.0	50.0	100.0	—	—	—	—
<b>Revenue:</b>							
Amount (000) \$.....	533,915	360,267	894,183	60,262	102,223	162,486	1,056,670
Percent.....	59.7	40.3	100.0	37.1	62.9	100.0	—
<b>Expenses:</b>							
(000) \$.....	508,053	341,742	849,795	57,098	94,526	151,625	1,001,420
<b>Averages:</b>							
Vehicle-miles per power unit.....	45,550	27,992	34,960	—	11,998	—	—
Tons carried per power unit.....	1,622	1,066	1,287	—	1,274	—	—
Revenue per power unit (\$).....	11,465	5,091	7,620	5,358	3,920	4,354	6,832
Revenue per carrier (\$).....	523,961	22,384	52,249	386,301	19,594	30,241	46,990
Revenue per ton (\$).....	7.069	4.773	5.921	—	3.076	—	—
Revenue per vehicle-mile (cts) ..	25.16	16.19	21.79	—	32.67	—	—

① Equipment data, vehicle-miles, and tons shown for class I intercity carriers do not reflect the local operations of such carriers. ② Intercity vehicle-miles only. ③ Intercity tons only. ④ Does not include local vehicle-miles of class I intercity carriers and includes only intercity vehicle-miles and tons of class I local carriers.

NOTE: (a) Data for class I carriers exclude those engaged in both property and passenger transportation.

(b) Includes data on leased vehicles.

(c) Shows tons carried, not tons originated, hence duplication results where freight is interchanged among two or more carriers.

## Footnotes for table on page 43:

\*As recommended by the Public Roads Administration and the American Association of Motor Vehicle Administrators.

TW—Tire Width; F—Formula. ①—Formula used— $W = 700 (L \text{ plus } 40)$ , where W equals gross weight in pounds and L equals the distance in feet between the first and last axles of any group of two or more axles. ②—For-hire vehicles above minimum, privately owned vehicles below. ③—Not specified. ④—Special permit required. ⑤—Only buses permitted 35 feet. ⑥—Not permitted. ⑦—"Metropolitan areas"—11,000 lbs.; "Industrial areas"—9,000 lbs.; "Agricultural areas" and secondary highways—8,000 lbs. ⑧—Vehicles with axles less than 10 feet apart limited to 16,000 lbs. ⑨—Highway Commission authorized to increase maximum axle weight to 18,000 lbs. from time to time. ⑩—"Metropolitan areas"—22,000 lbs.; "Industrial areas"—18,000 lbs.; "Agricultural areas" and secondary highways—16,000 lbs. ⑪—Permitted on certain highways.

# Present State Motor Vehicle Size and Weight Restrictions Compared with War Emergency Minimum Standards\*

X = at or above minimum. O = below minimum.

	Width 96 in.	Height 12½ ft.	Length Single 35 ft.	Length Tractor— Semi- Trailer 45 ft.	Length Combina- tion 45 ft.	Weight— Wheel 9000 lbs. or 600 lbs. per inch tire width	Weight —Axle 18,000 lbs.	Gross Weight 40,000 lbs. or Formula <sup>(1)</sup>
Ala.....	X	X	X	X	(6)	X	X	X (F)
Ariz.....	X	X	X	X	X	X	X	X
Ark.....	X	X	X	X	X	O (TW)	X	X (F)
Calif.....	X	X	X	X	X	X	X	X (F)
Colo.....	X	X	X	O	X	X	X	X
Conn.....	X	X	X	O	(4)	O (TW)	X	X
Del.....	X	X	X	X	X	X (TW)	X	X
Fla.....	X	(2)	X	X	X	O (TW)	(2)	X
Ga.....	X	X	X	X	X	(3)	X	X (F)
Idaho.....	X	X	X	X	X	X	X	X
Ill.....	X	X	X	O	O	X (TW)	O	X
Ind.....	X	O	X	O	O	X	X	X (F)
Iowa.....	X	O	O	X	(6)	O	O	X (F)
Kan.....	X	X	X	O	X	X	X	X (F)
Ky.....	X	O	O	O	(6)	X (TW)	O	O (11)
La.....	X	X	X	X	X	X	X	X
Me.....	X	X	X	O	O	X (TW)	(8)	X
Md.....	X	(3)	X	X	X	X (TW)	X	X (F)
Mass.....	X	X	(5)	O	(3)	X (TW)	X	X
Mich.....	X	X	X	X	X	X (TW)	X	X (TW)
Minn.....	X	X	X	X	X	X	X	X (F)
Miss.....	X	X	X	O	X	X	X	O (11)
Mo.....	X	X	X	X	X	X (TW)	X	X (F)
Mont.....	X	X	X	X	X	X	X	X (F)
Nebr.....	X	X	X	O	X	X	X	X (F)
Nev.....	X	X	X	X	X	X (TW)	X	X
N. H.....	X	X	O	X	X	X (TW)	X	X
N. J.....	X	X	X	X	X	X (TW)	X (TW)	X
N. M.....	X	X	X	X	X	X	X	X (F)
N. Y.....	X	X	X	X	X	X	X	X (F)
N. C.....	X	X	X	X	X	X	X	X
N. D.....	X	X	X	O	O	O (TW)	X	X
Ohio.....	X	X	X	X	X	X (TW)	X	X (F)
Okla.....	X	X	X	X	X	X (TW)	X	X
Ore.....	X	(4)	X	X	X	X	X	X (F)
Pa.....	X	X	O	X	X	X (TW)	X	X
R. I.....	X	X	X	X	X	X (TW)	X	X
S. C.....	X	X	X	X	X	X	X	X (F)
S. D.....	X	X	X	X	X	X	X	X (F)
Tenn.....	X	O	O	O	O	(3)	O	O
Texas.....	X	X	X	X	X	X	X	O (F)
Utah.....	X	X	X	X	X	X	X	X (F)
Vt.....	X	O	X	X	X	X (TW)	X	X
Va.....	X	X	(5)	X	X	X (TW)	(9)	O
Wash.....	X	X	X	X	X	O (TW)	X	X (F)
W. Va.....	X	X	X	X	X	(7)	(10)	X (F)
Wis.....	X	X	X	X	X	X	X	X
Wyo.....	X	X	X	X	X	X	X	X (F)
D. C.....	X	X	X	X	X	X (TW)	X	X

\*Footnotes are shown at bottom of page 42.

SOURCE: Automotive Safety Foundation.

# 1,584,000 Miles of Surfaced Roads and Streets

	SURFACED MILEAGE				TOTAL MILEAGE			
	Rural Roads Under State Control	County and Local Roads	Streets ①	Total Surfaced	Rural Roads Under State Control	County and Local Roads	Streets ①	Total Mileage
Ala.	6,216	32,872	2,969	42,057	6,326	53,278	4,306	63,910
Ariz.	3,004	2,606	630	6,240	3,609	15,348	1,092	20,049
Ark.	8,404	11,397	2,809	22,610	8,955	43,690	4,609	57,254
Calif.	12,240	38,927	13,362	64,529	12,596	75,265	17,218	105,079
Colo.	9,846	5,803	2,809	18,458	11,850	62,769	3,537	78,156
Conn.	2,463	3,941	2,890	9,294	2,463	9,837	3,157	15,457
Del.	2,107		337	2,444	3,863		528	4,391
Fla.	6,679	7,640	6,958	21,277	7,494	27,399	9,999	44,892
Ga.	7,707	19,733	2,117	29,557	13,171	85,946	5,396	104,513
Idaho	3,930	10,130	1,201	15,261	4,734	24,339	1,536	30,609
Ill.	10,012	69,644	17,666	97,322	10,053	94,576	22,391	127,020
Ind.	9,311	60,012	8,915	78,238	9,332	70,717	9,935	89,984
Iowa	8,524	45,166	7,689	61,379	8,574	92,966	12,013	113,553
Kan.	8,786	23,991	4,614	37,391	9,368	119,031	7,214	135,613
Ky.	9,360	19,422	3,195	31,977	9,418	46,741	3,585	59,744
La.	14,651	4,299	2,347	21,297	17,690	22,064	3,688	43,442
Me.	8,669	1,337	757	10,763	8,836	12,875	1,080	22,791
Md.	4,214	6,102	1,986	12,302	4,214	12,272	2,173	18,659
Mass.	1,794	14,252	6,075	22,121	1,794	15,458	6,125	23,377
Mich.	7,873	50,625	8,892	67,390	8,396	83,898	11,745	104,039
Minn.	9,878	44,770	8,292	62,940	9,979	104,696	11,204	125,879
Miss.	5,792	25,401	3,018	34,211	5,801	54,406	3,788	63,995
Mo.	15,192	32,100	7,326	54,618	15,230	101,081	12,703	129,014
Mont.	5,647	9,401	921	15,969	6,403	56,191	2,200	64,794
Nebr.	8,419	16,888	3,667	28,974	8,762	91,842	4,997	105,601
Nev.	3,130	311	301	3,742	5,307	17,897	418	23,622
N. H.	3,490	3,585	966	8,041	3,493	7,952	979	12,424
N. J.	1,582	11,796	8,504	21,842	1,705	17,273	9,161	28,139
N. M.	6,478	1,115	708	8,301	9,123	48,791	1,253	59,167
N. Y.	12,748	45,620	13,015	71,383	14,074	71,795	17,358	103,227
N. C.	32,184	17	3,898	36,099	58,261	20	5,932	64,213
N. D.	6,174	17,450	678	24,302	7,155	107,328	885	115,348
Ohio	16,226	57,180	15,234	88,640	16,261	69,346	19,318	104,925
Okla.	7,912	8,134	3,664	19,710	8,626	92,018	7,644	108,288
Ore.	6,517	13,212	2,877	22,606	6,846	40,407	4,467	41,720
Pa.	30,929	16,365	13,562	60,856	37,649	49,324	16,929	103,902
R. I.	752	1,375	1,275	3,402	766	1,741	1,434	3,941
S. C.	6,849	7,065	1,206	15,120	9,990	35,860	2,947	48,797
S. D.	5,060	18,903	1,536	25,499	5,810	89,487	2,381	97,678
Tenn.	7,200	39,258	3,022	49,480	7,247	56,439	3,424	67,110
Texas	20,476	41,647	10,250	72,373	22,420	170,646	18,091	211,157
Utah	3,435	3,720	2,464	9,619	4,817	15,633	3,104	23,554
Vt.	1,727	6,068	650	8,445	1,727	11,816	674	14,217
Va.	32,609	714	2,664	35,987	46,171	786	3,999	50,956
Wash.	5,762	20,711	4,287	30,760	5,903	39,688	5,337	50,928
W. Va.	14,581	453	1,452	16,486	32,660	1,085	2,098	35,843
Wis.	9,203	59,026	7,772	76,001	9,203	73,786	8,128	91,117
Wyo.	3,793	1,245	627	5,665	4,035	20,031	875	24,941
D. C.			756	756			856	856
Total	429,535	931,389	222,810	1,583,734	528,160	2,405,834	303,891	3,237,885

① Including trans-city connections with rural roads.

NOTE: Excludes 70,000 miles of roads in state and national parks, forests, reservations, etc., of which total 12,000 miles are surfaced. Additional mileage of this type is included in the individual state totals given above.

SOURCE: U. S. Public Roads Administration.

# 58% of All Buses are in School Service

Number of Buses by Type of Service, Classified by States  
Where Vehicles are Garaged

	Total	Local	Intercity	School	Other
Alabama	3,245	249	223	2,736	37
Arizona	416	90	36	253	37
Arkansas	1,562	176	142	1,212	32
California	4,464	1,723	1,272	1,046	423
Colorado	1,024	133	121	737	33
Connecticut	1,415	1,029	96	275	15
Delaware	344	58	21	259	6
Florida	1,991	540	185	1,227	39
Georgia	3,145	424	236	2,411	74
Idaho	587	29	34	484	40
Illinois	3,251	1,718	524	899	110
Indiana	7,161	896	487	5,639	139
Iowa	2,386	860	56	1,914	156
Kansas	894	153	173	550	18
Kentucky	2,225	437	261	1,497	30
Louisiana	3,183	366	321	2,443	53
Maine	766	128	105	500	33
Maryland	1,509	353	158	857	141
Massachusetts	3,290	1,705	545	917	123
Michigan	4,994	2,720	309	1,747	218
Minnesota	2,309	328	283	1,669	29
Mississippi	3,745	160	176	3,371	38
Missouri	3,597	1,057	267	2,175	98
Montana	860	124	65	396	275
Nebraska	528	158	68	230	72
Nevada	105	7	23	65	10
New Hampshire	404	60	85	241	18
New Jersey	5,470	636	3,607	903	324
New Mexico	923	53	43	807	20
New York	10,188	5,782	846	3,232	328
North Carolina	6,468	562	527	5,265	114
North Dakota	141	29	20	90	2
Ohio	9,310	1,768	743	6,524	275
Oklahoma	3,160	298	219	2,610	33
Oregon	1,203	227	150	773	53
Pennsylvania	6,793	2,518	804	3,168	223
Rhode Island	429	201	77	124	27
South Carolina	1,816	219	118	1,446	33
South Dakota	349	34	38	270	7
Tennessee	2,672	606	362	1,660	44
Texas	8,087	1,628	817	5,449	193
Utah	701	176	32	395	98
Vermont	181	32	57	86	6
Virginia	3,721	805	395	2,391	130
Washington	2,883	655	387	1,622	219
West Virginia	1,353	299	275	736	43
Wisconsin	1,726	568	171	947	40
Wyoming	360	31	24	295	10
District of Columbia	1,149	899	151	4	95
Total	128,483	33,107	16,215	74,547	4,614
Percent	100	25.8	12.6	58.0	3.6
Private ownership	90,257	30,028	16,113	39,763	4,353
Public ownership	38,226	3,079	102	34,784	261

SOURCE: Truck and Bus Inventory, 1941, U. S. Public Roads Administration.

# 149,000 Motor Buses in United States

## Classified by state of Registration

	SCHOOL BUSES		REVENUE BUSES				Total*	
	1941	1942	City		Intercity		1941	1942
			1941	1942	1941	1942		
Alabama.....	2,850	3,042	271	410	316	404	3,437	3,856
Arizona.....	539	410	112	127	39	177	690	714
Arkansas.....	1,831	1,881	119	144	121	175	2,071	2,200
California.....	2,200	2,200	2,298	2,719	1,184	1,344	5,682	6,263
Colorado.....	1,263	690	118	139	290	305	1,671	1,134
Connecticut.....	790	1,072	1,053	1,154	162	169	2,005	2,395
Delaware.....	244	245	44	41	24	21	312	307
Dist. of Columbia.....	12	10	875	1,229	54	57	941	1,296
Florida.....	1,417	1,417	520	607	332	315	2,269	2,339
Georgia.....	2,780	2,879	353	450	317	622	3,450	3,951
Idaho.....	665	612	34	52	56	121	755	785
Illinois.....	590	680	1,636	1,829	691	768	2,917	3,277
Indiana.....	7,003	6,231	592	626	514	536	8,109	7,393
Iowa.....	2,724	2,309	334	372	54	107	3,112	2,788
Kansas.....	350	422	188	314	254	366	792	1,102
Kentucky.....	1,612	1,502	386	426	472	756	2,470	2,684
Louisiana.....	2,698	2,552	298	367	397	753	3,393	3,672
Maine.....	645	645	87	144	197	344	929	1,133
Maryland.....	954	1,033	318	327	275	509	1,547	1,869
Massachusetts.....	1,600	1,600	2,238	2,515	801	778	4,639	4,893
Michigan.....	1,300	1,295	2,418	2,808	533	673	4,251	4,776
Minnesota.....	1,960	1,425	344	415	374	414	2,678	2,254
Mississippi.....	4,400	4,400	102	133	110	68	4,612	4,601
Missouri.....	1,943	1,943	1,541	1,792	466	665	3,950	4,400
Montana.....	471	468	32	36	115	152	618	656
Nebraska.....	300	300	138	172	358	335	796	807
Nevada.....	200	80	10	5	61	75	271	160
New Hampshire.....	777	426	81	81	71	141	929	648
New Jersey.....	1,561	1,561	4,646	4,981	740	854	6,947	7,396
New Mexico.....	991	872	23	23	64	79	1,078	974
New York.....	8,304	4,834	6,024	6,518	1,475	1,683	15,803	13,035
North Carolina.....	4,746	4,921	367	582	486	469	5,599	5,972
North Dakota.....	300	300	35	35	36	34	371	369
Ohio.....	6,844	6,844	1,597	1,875	729	923	9,170	9,642
Oklahoma.....	2,513	2,513	253	300	238	272	3,004	3,085
Oregon.....	935	928	171	363	350	294	1,456	1,585
Pennsylvania.....	4,390	3,560	2,301	2,699	1,613	1,817	8,304	8,076
Rhode Island.....	150	150	158	185	180	172	488	507
South Carolina.....	1,644	1,644	130	213	109	171	1,883	2,028
South Dakota.....	350	350	39	41	84	86	473	477
Tennessee.....	1,873	1,696	434	539	399	464	2,706	2,699
Texas.....	6,022	6,074	1,394	1,696	956	1,265	8,372	9,035
Utah.....	436	431	166	188	50	54	652	673
Vermont.....	175	175	45	40	82	116	302	331
Virginia.....	2,423	2,223	785	919	305	408	3,513	3,550
Washington.....	1,549	1,612	611	609	534	532	2,694	2,753
West Virginia.....	1,179	1,179	263	290	571	709	2,013	2,178
Wisconsin.....	2,200	1,200	473	591	220	215	2,893	2,006
Wyoming.....	695	332	23	31	45	72	763	435
Total of Above.....	93,398	85,168	36,478	42,152	17,904	21,839	147,780	149,159
Net Total.....							146,058	148,800

\*In combining school buses and revenue buses operating over fixed routes a duplication results in that about 6,000 revenue buses are operated part-time as school buses. Also classification of sight-seeing and charter hire buses is not available by states, and hence not included in total of states.

SOURCE: "Bus Transportation"



# 24,406,000 Cars, 4,267,000 Trucks Registered Aug. 1, 1943

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	PASSENGER CARS		Decrease		TRUCKS		Decrease	
	Registered to Aug. 1 1943	1942	Units	Percent	Registered to Aug. 1 1943	1942	Units	Percent
Ala.....	281,161	292,501	11,340	3.9	63,049	63,654	605	0.4
Ariz.....	102,477	107,855	5,378	5.0	25,330	25,060	+270	+1.1
Ark.....	187,567	203,977	16,410	8.0	67,941	71,216	3,275	4.6
Calif.....	2,290,985	2,416,232	125,247	5.1	327,283	329,486	2,203	0.6
Colo.....	252,194	273,151	20,957	7.6	64,754	64,340	+414	+0.6
Conn.....	399,760	438,321	38,561	8.8	51,192	51,525	333	0.6
Dela.....	56,243	57,829	1,586	2.7	11,192	11,022	+170	+1.5
Fla.....	364,659	406,900	42,241	10.4	81,884	79,948	+1,936	+2.4
Ga.....	392,493	426,387	33,894	7.9	86,977	89,483	2,506	2.8
Idaho.....	105,428	113,423	7,995	7.0	31,828	30,558	+1,270	+7.1
Ill.....	1,542,395	1,687,424	145,029	8.6	213,310	222,124	8,814	4.0
Ind.....	626,578	652,685	26,107	4.0	87,747	90,460	2,713	3.0
Iowa.....	598,802	641,848	43,046	6.7	95,077	100,460	5,383	5.3
Kans.....	456,464	470,439	13,975	2.9	111,281	110,004	+1,277	+1.1
Ky.....	351,814	367,062	15,248	4.1	69,255	73,337	4,082	5.5
La.....	317,082	325,337	8,255	2.5	67,967	72,617	4,650	6.4
Maine.....	132,252	148,975	16,723	11.2	39,598	40,766	1,168	2.9
Md.....	360,529	375,766	15,237	4.5	54,030	53,463	+567	+1.0
Mass.....	727,083	829,691	102,608	12.3	102,486	107,290	4,804	4.4
Mich.....	1,386,746	1,472,695	85,949	5.8	146,674	145,651	+1,023	+0.7
Minn.....	662,332	718,375	56,043	7.8	112,917	121,927	9,010	7.4
Miss.....	182,135	190,507	8,372	4.4	59,045	58,807	+238	+0.4
Mo.....	691,985	742,328	50,343	6.8	137,735	148,040	10,305	7.0
Mont.....	111,574	123,381	11,807	9.5	43,017	44,009	992	2.2
Nebr.....	258,800	275,400	16,600	6.0	55,500	56,800	1,300	2.3
Nev.....	37,164	37,862	698	1.8	8,650	9,247	597	6.4
N. H.....	78,519	92,423	13,904	15.0	22,052	23,679	1,627	6.8
N. J.....	801,005	911,572	110,567	12.1	110,830	115,894	5,064	4.5
N. M.....	72,990	80,113	7,123	8.8	25,812	25,221	+591	+2.3
N. Y.....	1,737,160	2,089,129	351,969	16.8	273,323	286,526	13,203	4.6
N. C.....	490,295	532,257	41,962	7.9	129,000	129,395	395	0.3
N. D.....	128,499	135,585	7,086	5.2	40,188	38,692	+1,496	+3.8
Ohio.....	1,661,717	1,731,192	69,475	4.0	172,265	177,701	5,436	3.0
Okla.....	389,472	427,168	37,696	8.8	97,086	103,285	6,199	6.0
Ore.....	326,688	334,239	7,551	2.2	75,107	74,198	+909	+1.2
Pa.....	1,613,517	1,804,823	191,306	10.6	247,530	254,829	7,299	2.8
R. I.....	140,202	157,776	17,574	11.1	20,520	21,423	903	4.2
S. C.....	272,283	290,162	17,879	6.1	47,023	46,889	+134	+0.3
S. D.....	141,017	154,270	13,253	8.6	33,585	34,856	1,271	3.6
Tenn.....	386,568	415,971	29,403	7.0	73,844	79,892	6,048	7.5
Texas.....	1,174,718	1,216,507	41,789	3.4	262,371	268,861	6,490	2.4
Utah.....	121,713	115,432	+6,281	+5.4	24,867	23,318	+1,549	+6.6
Vt.....	65,132	73,751	8,619	11.7	9,129	9,169	40	0.4
Va.....	398,843	428,051	29,208	6.8	75,881	77,811	1,930	2.5
Wash.....	486,779	499,333	12,554	2.5	90,588	89,316	+1,272	+1.4
W. Va.....	174,163	202,106	27,943	13.8	41,717	43,247	1,530	3.5
Wis.....	703,637	756,739	53,102	7.0	138,499	154,367	15,868	10.3
Wyo.....	58,362	61,768	3,406	5.5	18,415	18,703	288	1.5
D. C.....	106,606	130,734	24,128	18.5	21,984	20,596	+1,388	+6.7
<b>TOTALS</b>	<b>24,406,587</b>	<b>26,437,452</b>	<b>2,030,865</b>	<b>7.7</b>	<b>4,267,335</b>	<b>4,389,162</b>	<b>121,827</b>	<b>2.8</b>

# Motor Vehicle Registrations, 1895 - 1942

(Figures as of December 31st from Public Roads Administration)

	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	Percent Change	Number	Percent Change	Number	Percent Change
1895.....	4	.....	.....	.....	4	.....
1896.....	16	.....	.....	.....	16	.....
1897.....	90	.....	.....	.....	90	.....
1898.....	800	.....	.....	.....	800	.....
1899.....	3,200	.....	.....	.....	3,200	.....
1900.....	8,000	.....	.....	.....	8,000	.....
1901.....	14,800	+85	.....	.....	14,800	+85
1902.....	23,000	+55	.....	.....	23,000	+55
1903.....	32,920	+43	.....	.....	32,920	+43
1904.....	54,590	+66	700	.....	55,290	+68
1905.....	77,400	+42	1,400	+100	78,800	+43
1906.....	105,900	+37	2,200	+57	108,100	+37
1907.....	140,300	+33	2,900	+32	143,200	+32
1908.....	194,400	+38	4,000	+38	198,400	+38
1909.....	305,990	+57	6,050	+51	312,000	+57
1910.....	458,500	+50	10,000	+65	468,500	+50
1911.....	619,500	+35	20,000	+100	639,500	+36
1912.....	902,600	+46	41,400	+107	944,000	+46
1913.....	1,194,262	+32	63,800	+54	1,258,062	+33
1914.....	1,625,739	+36	85,600	+34	1,711,339	+36
1915.....	2,309,666	+42	136,000	+59	2,445,666	+43
1916.....	3,297,996	+43	215,000	+58	3,512,996	+44
1917.....	4,697,340	+42	328,000	+52	4,983,340	+42
1918.....	5,621,617	+21	525,000	+61	6,146,617	+23
1919.....	6,771,074	+21	794,372	+51	7,565,446	+23
1920.....	8,225,859	+22	1,006,082	+27	9,231,941	+22
1921.....	9,346,195	+14	1,117,100	+11	10,463,295	+13
1922.....	10,862,650	+16	1,375,725	+23	12,238,375	+17
1923.....	13,479,608	+24	1,612,569	+17	15,092,177	+23
1924.....	15,460,649	+15	2,134,724	+32	17,595,373	+17
1925.....	17,496,420	+13	2,440,854	+14	19,937,274	+13
1926.....	19,237,171	+10	2,764,222	+13	22,001,393	+10
1927.....	20,219,224	+5	2,914,019	+5	23,133,243	+5
1928.....	21,379,125	+6	3,113,999	+7	24,493,124	+6
1929.....	23,121,589	+8	3,379,854	+8	26,501,443	+8
1930.....	23,099,262	-0.3	3,466,019	+3.1	26,565,281	+0.2
1931.....	22,366,313	-3.0	3,466,571	-0.6	25,832,884	-2.5
1932.....	20,885,814	-6.6	3,229,315	-6.8	24,115,129	-6.7
1933.....	20,643,564	-1.2	3,230,668	+0.4	23,874,232	-1.0
1934.....	21,532,408	+4.4	3,419,254	+5.9	24,951,662	+4.6
1935.....	22,582,847	+4.9	3,664,429	+7.2	26,227,276	+5.1
1936.....	24,178,211	+7.1	3,967,339	+8.9	28,165,550	+7.3
1937.....	25,449,924	+5.4	4,255,296	+6.9	29,705,220	+5.5
1938.....	25,261,649	-0.7	4,224,031	-0.7	29,485,680	-0.7
1939.....	26,201,395	+3.7	4,413,692	+4.5	30,615,087	+3.8
1940.....	27,434,979	+4.7	4,590,386	+4.0	32,025,365	+4.6
1941.....	29,907,113	+7.6	4,876,054	+6.2	34,383,167	+7.4
1942.....	27,974,196	-5.2	4,608,086	-5.5	32,582,242	-5.3

## Tax-Exempt Publicly-Owned Vehicles Not Included in Above Registrations ②

	Passenger Cars	Trucks	Not Classified	Total
1937.....	76,349	195,111	64,612	336,072
1938.....	91,192	208,362	67,656	367,230
1939.....	87,088	228,428	79,267	394,783
1940.....	101,593	248,678	77,225	427,496
1941*.....	105,618	210,150	66,061	381,829
1942*.....	141,377	278,961	.....	420,358

①—Buses included with passenger cars in all except 5 or 6 states. Taxicabs are included with passenger cars.

②—Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table.

\*Excludes military vehicles.

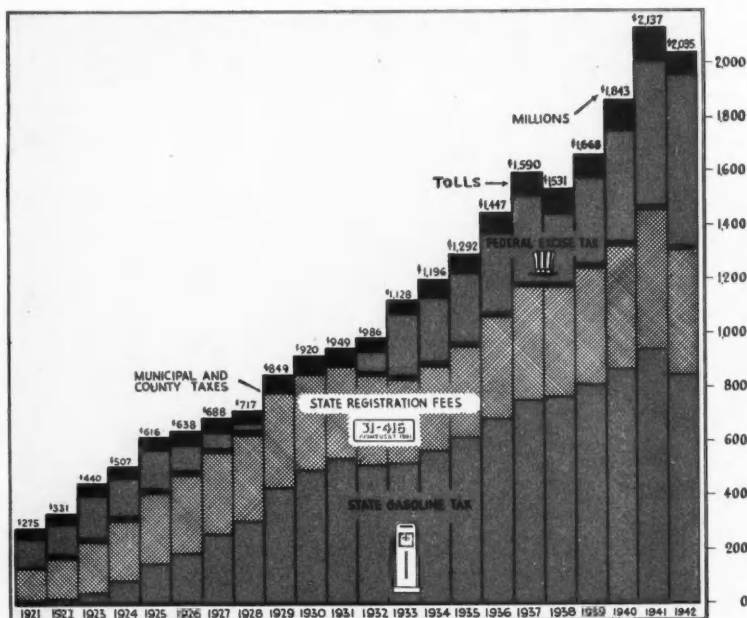
# Car and Truck Registrations by States

(Figures from U. S. Public Roads Administration as of December 31st)

States	Passenger Cars ①		Motor Trucks		Commercial Buses ②		Total Motor Vehicles
	1941	1942	1941	1942	1941	1942	1942
Alabama.....	330,727	289,181	74,706	64,584	4,273	4,969	358,734
Arizona.....	117,377	113,438	26,689	27,172	335	395	141,005
Arkansas.....	212,522	212,998	77,191	75,286	536	769	289,053
California.....	2,614,106	2,574,495	343,853	327,689	4,263	4,817	2,907,001
Colorado.....	306,182	296,400	60,366	62,200	1,220	1,260	359,860
Connecticut.....	470,566	483,367 ②	79,256	65,644 ②	1,279	1,592	550,623
Delaware.....	64,662	55,415	11,828	10,758	352	350	66,523
Florida.....	458,687	418,161	85,238	80,919	1,781	2,349	501,429
Georgia.....	460,787	443,705	95,063	91,942	3,134	3,242	535,889
Idaho.....	134,473	121,852	36,419	35,070	139	184	157,106
Illinois.....	1,823,884	1,746,717	222,222	220,607	2,699	3,000	1,970,324
Indiana.....	928,399	898,358	144,068	138,648	6,467	7,516	1,044,522
Iowa.....	714,608	658,910	110,004	103,487	500	475	760,872
Kansas.....	503,921	504,311	113,312	114,808	660	810	619,929
Kentucky.....	414,845	382,896	81,663	77,436	919	1,177	461,509
Louisiana.....	344,947	335,576	82,370	73,638	3,390	3,338	412,552
Maine.....	176,321	157,630	45,748 ③	42,074 ③	298	440	200,144
Maryland.....	428,764	426,277	64,204	62,580	1,173	1,402	490,259
Massachusetts.....	845,874	798,426	110,650	107,868	5,115	5,489	911,783
Michigan.....	1,543,285	1,453,040 ④	161,365	142,387 ④	990	5,000	1,600,427
Minnesota.....	772,708	721,219	129,710	123,125	624	732	845,076
Mississippi.....	220,807	184,453	71,060	61,744	1,858	2,139	248,336
Missouri.....	820,080	794,846	161,468	155,769	3,078	3,573	954,188
Montana.....	147,256	128,656	51,126	45,796	350	775	175,227
Nebraska.....	354,276	348,515	68,460	70,326	322	508	417,349
Nevada.....	38,480	40,225	9,524	10,037	156	144	50,406
New Hampshire.....	108,971	96,280	32,118	31,099	315	454	127,833
New Jersey.....	1,019,155	961,929	141,329	140,928	5,432	6,055	1,108,912
New Mexico.....	97,127	86,073	30,806	28,559	1,278	1,284	115,916
New York.....	2,510,169	2,256,664	340,863	319,990	8,897	9,384	2,586,038
North Carolina.....	562,017	531,284	98,422	95,822	1,340	1,861	628,967
North Dakota.....	151,977	142,104	40,788	41,935	130	147	184,186
Ohio.....	1,800,000	1,866,278	194,200	193,325	1,800	3,141	2,062,744
Oklahoma.....	476,566	434,489	112,459	109,586	2,797	3,323	547,398
Oregon.....	353,213	341,367	75,538 ⑤	75,217 ⑤	689	982	417,566
Pennsylvania.....	2,010,117	1,887,446	268,663	263,407	6,303	4,656	2,155,509
Rhode Island.....	177,780	166,623	20,585	20,823	501	619	188,065
South Carolina.....	334,884	279,012	53,097	49,350	1,517	2,123	330,485
South Dakota.....	167,655	154,351	35,079	34,856	141	156	189,363
Tennessee.....	424,911	389,028	81,022 ⑥	74,285 ⑥	3,050	3,750	466,063
Texas.....	1,440,996	1,316,479 ⑦	369,103	297,912 ⑦	1,002	1,504	1,615,895
Utah.....	125,633	128,564	24,229	24,940	631	603	154,107
Vermont.....	87,048 ⑧	78,866 ⑧	10,327 ⑧	9,487 ⑧	111	143	88,496
Virginia.....	482,838	461,249	85,979	85,218	750	1,525	547,992
Washington.....	520,599	514,662	94,772	93,517	1,659	2,130	610,309
West Virginia.....	279,700	245,669	55,301	49,476	839	1,091	296,236
Wisconsin.....	807,810	736,004	159,786	144,684	916	899	881,587
Wyoming.....	71,017	66,516	20,302	20,134	140	136	86,786
Dist. of Col.....	158,616	143,722	13,803	11,942	1,651	2,999	158,663
Totals.....	29,418,313	27,868,746	4,876,054	4,608,086	88,800	105,410	32,582,242

①—Figures given represent commercial buses in most states although contract school buses are included in a few states. Other types of buses in most states are not segregated from passenger cars. ②—"Combination" registrations, formerly included with trucks, have been segregated between automobiles and trucks. ③—Includes freight trailers. ④—Taxicabs included with trucks; in other states taxicabs are included with passenger cars. ⑤—Trailers included with trucks. ⑥—Trucks under 1,500 pounds capacity included with passenger cars. ⑦—Commercial passenger cars, formerly registered as trucks, in 1942 were registered as passenger cars.

# 1942 Motor Vehicle Taxes \$2,034,000,000



	State Gross Registration Receipts ①	State Gasoline Tax (Net) ①	Municipal and County Taxes ②	Federal Excise Taxes ③	Tolls ④	Total
1925...	\$280,619,821	\$148,358,087	\$13,684,000	\$145,295,784	\$48,316,000	\$616,273,492
1926...	288,282,352	187,603,231	14,655,000	96,386,767	51,345,000	638,272,350
1927...	301,061,132	258,838,813	15,343,000	60,473,708	52,657,000	688,373,653
1928...	322,630,025	304,871,766	15,990,000	20,396,176	53,010,000	716,887,967
1929...	347,843,543	431,311,519	16,392,000	...	53,608,000	849,155,062
1930...	355,704,880	493,865,117	16,555,000	...	53,445,000	919,569,977
1931...	344,337,654	536,397,458	15,742,000	...	52,258,000	948,735,112
1932...	330,005,109 ①	513,047,239	15,861,000	75,006,210	52,521,000	986,440,588
1933...	310,100,884	518,195,712	16,000,000	229,631,826	54,000,000	1,127,928,422
1934...	316,682,000	565,027,000	16,000,000	235,140,802	64,000,000	1,196,829,802
1935...	335,375,000	616,851,671	16,000,000	256,097,573	67,600,000	1,291,924,244
1936...	374,920,000	686,631,000	16,000,000	295,819,324	73,400,000	1,446,870,324
1937...	415,829,000	758,930,000	16,000,000	323,478,737	78,200,000	1,590,437,737
1938...	405,246,000	766,853,000	16,000,000	288,125,045	78,700,000	1,531,924,045
1939...	430,549,000	816,433,000	16,000,000	317,567,000	87,400,000	1,667,949,000
1940...	457,091,000	864,472,000	16,000,000	409,185,000	96,100,000	1,842,848,000
1941...	511,242,000	950,956,000	16,000,000	562,962,000	96,100,000	2,137,260,000
1942...	470,864,000	839,457,000	16,000,000	626,327,000 ⑤	82,100,000	2,034,748,000

These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle, body, parts and tire factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

①—U. S. Public Roads Administration. ②—Estimated by Automobile Manufacturers Association based on "The Taxation of Motor Vehicles in 1932" by the U. S. Public Roads Administration, and other special surveys. Data prior to 1934 include personal property taxes. Data for 1934 and following years do not include personal property taxes. ③—U. S. Bureau of Internal Revenue. Includes only 90% (i.e., motor vehicle portion) of Federal excise tax collections on gasoline and 52% (motor vehicle share) of lubricating oil. 1925 and 1926 include excise on for-hire vehicles. ④—Includes special motor carrier taxes from 1932 to date. ⑤—Includes \$210,158,000 motor vehicle use tax.

# State Motor Vehicle Fees and Gasoline Taxes

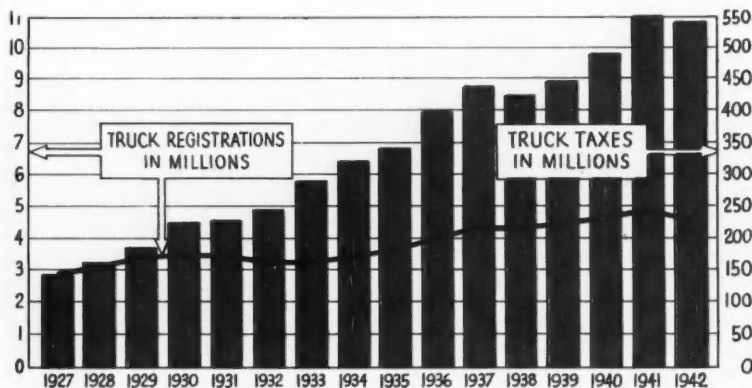
(Figures from United States Public Roads Administration)

In Thousands of Dollars

	Gasoline Taxes			Registration Fees Including Special Motor Carrier Taxes		
	1940	1941	1942	1940	1941	1942
Alabama	\$ 15,470	\$ 18,323	\$ 18,360	\$ 4,876	\$ 6,853	\$ 6,266
Arizona	4,767	5,361	5,260	1,410	1,577	1,632
Arkansas	11,312	13,100	12,658	3,402	3,939	4,139
California	51,960	58,076	53,912	31,069	35,815	34,402
Colorado	8,291	8,833	8,168	3,581	3,812	4,015
Connecticut	11,032	11,758	9,343	7,705	8,586	8,330
Delaware	2,322	2,501	2,028	1,252	1,456	1,259
Florida	26,929	29,832	23,402	8,363	9,890	10,942
Georgia	22,809	26,049	21,585	2,864	3,061	3,007
Idaho	4,822	5,231	4,721	1,465	1,615	1,415
Illinois	41,360	44,762	39,734	24,760	26,567	26,834
Indiana	25,494	28,518	25,897	12,068	13,040	11,150
Iowa	14,592	15,338	13,777	13,399	14,646	13,760
Kansas	10,402	11,234	10,216	5,429	6,372	5,960
Kentucky	14,713	16,175	14,284	5,866	6,517	5,173
Louisiana	18,584	21,425	19,552	5,505	3,635	3,577
Maine	5,940	6,657	5,119	4,181	4,456	4,106
Maryland	11,448	13,070	11,313	6,698	7,830	6,300
Massachusetts	21,401	22,488	16,627	7,471	8,043	7,417
Michigan	32,466	35,585	31,615	24,616	27,787	25,285
Minnesota	18,345	18,870	18,846	10,348	19,577 <sup>①</sup>	9,860
Mississippi	11,931	13,753	12,650	3,174	3,672	3,303
Missouri	13,301	14,277	12,670	11,616	12,655	11,767
Montana	5,068	5,467	4,749	1,781	1,863	1,618
Nebraska	11,742	12,268	11,661	2,876	3,227	2,936
Nevada	1,485	1,683	1,671	577	722	795
New Hampshire	3,616	3,715	2,891	3,055	3,295	2,925
New Jersey	24,226	26,221	21,631	22,662	24,453	22,576
New Mexico	4,676	5,076	4,362	2,218	2,485	2,196
New York	73,055	74,458	58,657	55,980	54,004	49,095
North Carolina	26,274	30,649	24,293	8,571	10,361	10,272
North Dakota	3,351	3,515	3,226	1,703	2,071	1,982
Ohio	50,789	58,113	52,911	30,974	34,106	32,176
Oklahoma	14,771	18,661	19,142	6,639	7,115	9,111
Oregon	11,359	13,029	11,934	4,703	6,080	5,584
Pennsylvania	62,487	64,867	55,883	38,896	41,333	37,960
Rhode Island	3,941	4,272	3,404	3,227	3,438	3,269
South Carolina	13,622	15,817	13,053	2,372	3,045	2,535
South Dakota	4,453	4,559	4,378	2,227	2,348	2,256
Tennessee	21,112	24,190	23,509	5,381	7,198	6,136
Texas	47,518	52,747	48,365	22,545	26,848	26,380
Utah	4,055	4,432	4,249	1,227	1,335	1,317
Vermont	2,781	2,930	2,256	2,625	2,750	2,491
Virginia	19,404	22,916	19,472	7,522	8,854	8,942
Washington	17,172	19,321	18,327	3,902	5,653	4,381
West Virginia	10,680	11,553	9,956	6,649	7,320	5,972
Wisconsin	21,150	22,737	20,991	14,767	16,703	14,984
Wyoming	2,772	3,065	2,479	895	981	1,004
Dist. of Columbia	3,222	3,479	4,230	1,999	2,253	2,072
<b>Total</b>	<b>\$864,472</b>	<b>\$950,956</b>	<b>\$839,457</b>	<b>\$457,091</b>	<b>\$511,242</b>	<b>\$470,864</b>

①—Large increase due to law requiring 1942 licenses before November 15 1941.

## 1942 Special Truck Taxes Exceed Half Billion Dollars



### Special Taxes per Truck Average \$117

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

In Thousands of Dollars

	Registration Fees (State)	Motor Carrier and Trailer Fees (State)	Gasoline Tax (State)	Federal Excise Taxes	Special City & County Taxes <sup>①</sup>	Bridge, Tunnels, Ferry Tolls <sup>②</sup>	Total Special Taxes	Average Per Truck Registered
1927	\$64,691	\$1,005	\$75,108	.....	\$3,050	N. A.	\$143,854	\$49.37
1928	69,400	1,402	87,161	.....	3,250	N. A.	161,213	51.77
1929	72,823	1,607	108,506	.....	3,450	N. A.	186,386	55.15
1930	78,789	1,955	138,055	.....	3,650	N. A.	222,449	63.81
1931	76,616	2,758	144,756	.....	3,850	N. A.	227,980	65.77
1932	74,046	8,577 <sup>③</sup>	139,376	\$19,510	4,050	N. A.	245,559	76.04
1933	68,659	11,683	142,287	59,459	4,450	N. A.	286,538	88.69
1934	71,852	13,906	154,170	60,516	4,600	\$12,710	317,754	92.93
1935	78,598	17,998	161,743	65,598	5,100	13,635	342,672	93.51
1936	89,160	22,199	191,455	75,445	5,300	15,122	398,681	99.99
1937	95,115	24,966	208,783	82,508	5,600	16,217	433,189	101.80
1938	95,461	25,270	206,791	67,835	5,676	16,314	417,347	98.80
1939	101,786	26,618	216,434	75,889	5,923	17,343	443,993	100.59
1940	104,950	30,019	227,726	94,995	6,170	18,036	481,896	104.98
1941	115,537	35,565	242,045	131,071	7,675	19,303	551,196	113.04
1942	111,152	37,178	228,743	136,390 <sup>④</sup>	7,260	18,280	539,003	116.97

① Estimates based on data contained in "Taxation of Motor Vehicles in 1932," Public Roads Administration.

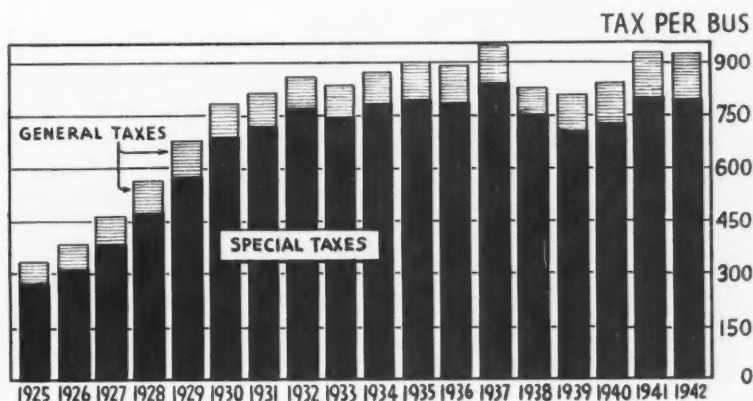
② Estimates based on data in June, 1941 issue of "Public Roads," Public Roads Administration.

③ Includes special motor carrier taxes from 1932 to date. Prior to 1932 Trailer fees only are shown.

④ Includes \$29,422,000 Motor Vehicle Use Tax.

SOURCE: First three columns from Public Roads Administration; Federal excise taxes based on reports of internal revenue; and special city and county taxes are estimates by Automobile Manufacturers Association.

# Special Taxes Total \$808 Per Bus in 1942



## Revenue Buses Paid \$56,370,000 Special Taxes, 1942

(Figures from National Association of Motor Bus Operators)

Year	Special Taxes	General Taxes*	Total Bus Taxes*	Special Taxes Per Bus	General Taxes Per Bus	Total Taxes Per Bus	Special Tax Per Bus Per Miles of Highway Used
1925	\$10,300,000	\$2,300,000	\$12,600,000	\$274.29	\$ 61.25	\$335.54	\$49.24
1926	13,100,000	3,000,000	16,100,000	311.65	71.37	383.02	55.36
1927	16,800,000	3,300,000	20,100,000	386.33	75.89	462.22	64.28
1928	21,200,000	3,800,000	25,000,000	474.61	85.07	559.68	74.16
1929	26,500,000	4,500,000	31,000,000	576.04	97.82	673.86	81.25
1930	31,200,000	4,900,000	36,100,000	677.00	106.32	783.32	90.87
1931	32,525,000	4,125,000	36,650,000	716.41	90.86	807.27	88.62
1932	34,500,000	4,150,000	38,650,000	766.67	92.22	858.89	90.93
1933	33,470,000	4,030,000	37,500,000	743.77	89.56	833.33	81.64
1934	33,300,000	3,980,000	37,280,000	774.42	92.56	866.98	82.91
1935	35,625,000	4,750,000	40,375,000	791.66	105.58	897.22	89.05
1936	38,475,500	5,125,500	43,601,000	785.22	104.60	889.82	97.18
1937	43,231,000	5,761,000	48,992,000	839.43	111.87	951.30	109.90
1938	38,545,086	5,156,825	43,701,911	748.95	100.13	848.08	101.48
1939	35,994,440	5,859,560	41,854,000	698.24	113.67	811.91	100.35
1940	38,028,340	6,190,660	44,219,000	704.23	114.64	818.87	110.77
1941	46,575,450	6,959,550	53,535,000	808.88	120.87	929.75	148.30
1942	56,369,910	8,423,090	64,793,000	807.59	120.68	928.27	142.71

\*Does not include income and excess profits taxes.

## Motor Vehicle Registrations in Canada

	1941	1942	Percent Change
Passenger Cars.....	1,279,536	1,216,950	- 4.9%
Motor Trucks.....	278,771	283,777	+ 1.8
Motor Buses.....	3,441	4,016	+16.7
Motor Cycles.....	14,477	15,818	+ 9.3
Other Motor Vehicles.....	4,389	3,592	-18.2
<b>Total Motor Vehicles.....</b>	<b>1,572,784</b>	<b>1,524,153</b>	<b>- 3.1</b>
Trailers.....	80,304	74,471	- 7.3
Chauffeurs' Licenses.....	428,128	411,521	- 3.9
Drivers' Licenses.....	1,710,460	1,605,951	- 6.1
Dealers' Licenses.....	4,549	3,759	-17.4
Gasoline Station Licenses.....	21,591	16,104	-25.4
Garage Licenses.....	10,790	11,562	+ 7.2

SOURCE: Dominion Bureau of Statistics, Ottawa, Canada.

## Employment, Earnings and Hours of All Wage Earners in Automobile, Body and Parts Factories

Year	ALL FACTORY WAGE EARNERS		INDIVIDUAL WORKER AVERAGES			
	Average Employment ①	Total Payrolls ①	Weekly Earnings ②	Cost of Living ③	Weekly Purchasing Power ④	Hours per Week ⑤
1899 .....	2,000	\$ 1,321,000	\$12.50	.....	.....	..
1904 .....	12,000	7,159,000	11.50	.....	.....	..
1909 .....	76,000	48,694,000	12.30	.....	.....	..
1914 .....	127,000	101,927,000	15.40	.....	.....	..
1919 .....	343,000	491,121,000	27.50	126.7	75.5	..
1921 .....	213,000	318,753,000	28.80	131.2	76.4	..
1923 .....	405,000	660,088,000	31.30	125.1	87.0	..
1924 .....	377,000	594,464,000	30.30	125.3	84.1	..
1925 .....	426,000	713,856,000	32.20	127.8	87.6	45
1926 .....	422,000	687,648,000	31.30	128.6	84.7	..
1927 .....	370,000	612,196,000	31.80	125.6	88.1	..
1928 .....	435,000	747,344,000	33.00	123.7	92.8	44
1929 .....	448,000	732,264,000	31.40	123.9	88.2	..
1930 .....	323,000	431,080,000	25.70	119.9	74.6	35
1931 .....	286,000	350,376,000	23.60	107.0	76.7	..
1932 .....	244,000	254,592,000	20.10	93.9	74.5	30
1933 .....	244,000	251,316,000	19.80	88.7	77.6	33
1934 .....	381,000	447,460,000	22.60	92.7	84.8	32
1935 .....	445,000	587,236,000	25.40	96.3	91.7	34
1936 .....	459,000	674,492,000	28.30	98.6	99.8	37
1937 .....	517,000	814,268,000	30.30	103.7	101.6	34
1938 .....	305,000	454,064,000	28.60	101.8	97.7	31
1939 .....	402,000	651,976,000	31.19	99.5	109.1	34
1940 .....	465,000	824,096,000	34.08	100.2	118.3	36
1941 .....	570,000	1,173,536,000	39.59	105.2	130.9	38
1942 .....	508,000	1,339,832,000	50.72	116.5	151.4	44

①—1899-21 from U. S. Census of Manufactures; 1923 on from U. S. Bureau of Labor Statistics; Indexes times base figures from BLS Bulletin No. 610. ②—Payrolls divided by 52 times average employment.

③—Special index prepared by U. S. Bureau of Labor Statistics for automotive cities. 1935-39=100.

④—Weekly Earnings divided by Cost of Living, 1935-39=100.

⑤—Weekly Earnings divided by Hourly Rates reported by U. S. Bureau of Labor Statistics.

NOTE: Excludes employment in government-owned plants in 1941 and 1942.



# Gasoline Consumption by Motor Vehicles

In Thousands of Gallons

	PRIVATE AND COMMERCIAL USE				PUBLIC USE Federal, State, County and Municipal		
	Highway	Percent of Total Usage	Non- Highway	Total	Highway	Non- Highway	Total
1925.....	8,556,558	93.6	394,890	8,951,448	192,517	.....	192,517
1926.....	9,848,668	93.3	488,210	10,336,878	215,283	.....	215,283
1927.....	11,093,864	92.9	605,570	11,699,434	237,462	.....	237,462
1928.....	12,106,219	92.5	728,822	12,835,041	255,241	.....	255,241
1929.....	13,858,382	92.1	911,735	14,770,117	280,919	.....	280,919
1930.....	14,454,164	91.6	1,023,796	15,477,960	299,747	.....	299,747
1931.....	15,149,145	91.1	1,164,599	16,313,744	307,517	.....	307,517
1932.....	14,012,600	90.8	1,088,189	15,100,789	326,551	.....	326,551
1933.....	13,998,958	91.1	1,019,753	15,018,711	349,194	.....	349,194
1934.....	15,033,999	90.8	1,086,697	16,120,696	380,897	56,328	437,225
1935.....	15,919,281	90.3	1,209,663	17,128,944	425,416	83,220	508,636
1936.....	17,640,917	90.2	1,359,528	19,000,445	458,221	103,011	561,232
1937.....	18,973,618	89.9	1,549,101	20,522,719	481,836	110,889	592,725
1938.....	19,110,356	89.7	1,592,164	20,702,520	501,287	107,868	609,155
1939.....	20,170,516	89.4	1,741,289	21,911,805	543,836	116,196	660,032
1940.....	21,417,818	89.1	1,906,481	23,324,299	582,538	130,688	713,226
1941.....	23,637,867	89.4	2,074,864	25,712,731	554,539	162,180	716,719
1941%.....	89.44%	.....	7.85%	97.29%	2.10%	0.61%	2.71%

## SUMMARY OF TOTAL USAGE

	Highway	Percent of Total Usage	Non- Highway	Total Usage	Losses Allowed for Evaporation Handling, etc.	Total Quantity Consumed
1925.....	8,749,075	95.7	394,890	9,143,965	.....	9,143,965
1926.....	10,063,951	95.4	488,210	10,552,161	.....	10,552,161
1927.....	11,331,326	94.9	605,570	11,936,896	.....	11,936,896
1928.....	12,361,460	94.5	728,822	13,090,282	.....	13,090,282
1929.....	14,139,301	93.9	911,735	15,051,036	.....	15,051,036
1930.....	14,753,911	93.5	1,023,796	15,777,707	.....	15,777,707
1931.....	15,456,662	93.0	1,164,599	16,621,261	90,438	16,711,699
1932.....	14,339,151	92.9	1,088,189	15,427,340	89,377	15,516,717
1933.....	14,348,152	93.4	1,019,753	15,367,905	114,839	15,482,744
1934.....	15,414,896	93.1	1,143,025	16,557,921	202,780	16,760,701
1935.....	16,344,697	92.7	1,292,883	17,637,580	216,899	17,854,479
1936.....	18,099,138	92.5	1,462,539	19,561,677	237,944	19,799,621
1937.....	19,455,454	92.1	1,659,990	21,115,444	259,253	21,374,697
1938.....	19,611,643	92.0	1,700,032	21,311,675	325,636	21,637,311
1939.....	20,714,352	91.8	1,857,485	22,571,837	344,649	22,916,486
1940.....	22,001,356	91.5	2,037,169	24,038,525	365,809	24,404,334
1941.....	24,192,397	91.5	2,237,044	26,429,441	290,677	26,720,118
1941%.....	91.54%	.....	8.46%	100.00%	.....	.....
1942.....	20,175,604	.....	.....	.....	.....	.....

# 131,600 New Cars in Stock June 30, 1943

## New Passenger Car Rationing

Total stocks of new cars February 28, 1942.....	520,793
Total cars released under Rationing Order 2 covering sales in process on January 1, 1942.....	28,478
Total cars released under Rationing Order 2A to June 30, 1943, civilian.....	327,829*
Total cars released under Rationing Order 2A to June 30, 1943, government.....	34,006
Grand total releases of new cars.....	390,313
Inventory, obtained by subtracting 390,313 from inventory Feb. 28, 1942.....	130,480 <sup>1</sup>
Inventory of new cars in United States June 30, 1943.....	131,607

\*Preliminary.

<sup>1</sup> Discrepancy due to various causes.

## 327,800 New Cars Released to Civilians Up to June 30, 1943

	Total Civilian Releases Mar. 2, 1942 to June 30, 1943	Inventory June 30, 1943		Total Civilian Releases Mar. 2, 1942 to June 30, 1943	Inventory June 30, 1943
Ala.....	5,425	895	N. H.....	669	589
Ariz.....	1,547	276	N. J.....	7,441	7,754
Ark.....	3,445	523	N. M.....	1,042	237
Calif.....	28,089	15,030	N. Y.....	17,803	18,080
Colo.....	2,822	1,129	N. C.....	6,680	1,850
Conn.....	4,227	2,422	N. D.....	1,401	421
Dela.....	766	578	Ohio.....	24,303	8,258
Fla.....	4,755	1,580	Okla.....	5,314	1,438
Ga.....	6,922	1,066	Ore.....	4,588	1,440
Idaho.....	1,340	184	Pa.....	17,984	11,650
Ill.....	19,950	7,894	R. I.....	1,322	1,139
Ind.....	10,720	1,918	S. C.....	4,141	790
Iowa.....	6,285	1,855	S. D.....	1,395	381
Kans.....	4,985	1,304	Tenn.....	5,867	1,199
Ky.....	4,310	1,044	Texas.....	22,454	3,790
La.....	5,251	780	Utah.....	2,306	447
Me.....	1,538	825	Vt.....	566	390
Md.....	5,676	1,863	Va.....	6,131	1,671
Mass.....	6,883	6,462	Wash.....	6,434	2,584
Mich.....	26,874	6,052	W. Va.....	2,696	861
Minn.....	7,294	2,875	Wis.....	7,143	3,289
Miss.....	3,442	672	Wyo.....	937	158
Mo.....	7,960	2,941	D. C.....	2,094	1,601
Mont.....	1,584	473	Possessions.....	272	199
Nebr.....	3,785	632			
Nev.....	941	118	Total Civilian...	327,829	131,607

SOURCE: Automobile Rationing Branch, Office of Price Administration.

# 51,900 New Trucks in Stock, August 1, 1943

## Cumulative Releases to Civilians and Government

SIZE	January 2, 1943	Cumulative from March 9, 1942 to March 9, 1943	July 31, 1943	Stocks as of July 31, 1943
Light .....	21,921	28,267	35,089	16,770
Medium .....	51,473	60,349	84,643	32,090
Heavy .....	11,859	14,112	17,682	3,045
<b>Total Trucks .....</b>	<b>85,253</b>	<b>102,728</b>	<b>137,414</b>	<b>51,905</b>

## 305,000 Motor Trucks Scrapped in 1942

	Units		Units
1931 .....	387,024	1937 .....	397,809
1932 .....	343,198	1938 .....	374,773
1933 .....	250,945	1939 .....	375,818
1934 .....	274,615	1940 .....	423,854
1935 .....	316,668	1941 .....	364,800
1936 .....	351,618	1942 .....	304,627*

\* Preliminary.

NOTE: Estimated by (1) adding retail sales of new trucks during a year to the total registrations at the end of the preceding year; (2) subtracting total registrations at the end of the current year; (3) adding half this difference obtained in (2) and half the corresponding difference resulting from a similar computation for the preceding year. This gives the estimated total scrapped or unregistered in the preceding year.

## Annual Average Truck Mileage 10,000

Source: U. S. Public Roads Administration, nation-wide Truck and Bus Inventory, 1941.

State	Trucks	Truck- Tractors	Trailers	Semi- Trailers	State	Trucks	Truck- Tractors	Trailers	Semi- Trailers
Ala. ....	12,150	25,600	21,100	20,900	Nev. ....	8,550	32,000	26,800	26,500
Ariz. ....	10,250	27,200	28,000	27,600	N. H. ....	9,270	32,800	13,900	26,500
Ark. ....	10,475	22,700	15,700	28,600	N. I. ....	9,700	23,000	12,800	20,800
Calif. ....	9,704	27,400	23,200	28,800	N. M. ....	10,600	24,300	6,600	27,400
Colo. ....	9,100	44,500	22,000	47,300	N. Y. ....	9,050	30,800	10,200	28,400
Conn. ....	9,000	24,200	8,600	20,600	N. C. ....	12,200	39,100	21,600	47,000
Del. ....	10,050	26,600	15,700	24,200	N. D. ....	7,300	36,100	25,500	40,700
Fla. ....	12,100	37,600	21,200	39,100	Okla. ....	9,700	34,500	12,600	31,900
Ga. ....	11,350	29,600	16,900	31,800	Ore. ....	8,600	16,700	43,300	16,700
Ida. ....	8,600	30,200	34,700	25,600	Pa. ....	9,800	29,200	20,500	27,900
Ill. ....	9,900	31,200	21,000	36,300	R. I. ....	9,650	22,600	9,950	19,900
Ia. ....	10,400	38,900	15,800	40,200	S. C. ....	11,600	32,400	19,800	31,600
Kan. ....	9,000	35,000	10,600	32,600	S. D. ....	8,750	37,300	13,000	40,000
Ky. ....	10,850	31,100	8,000	41,600	Tenn. ....	12,100	47,300	22,300	51,300
La. ....	11,200	18,500	14,000	21,500	Tex. ....	12,200	30,000	15,400	29,700
Me. ....	9,300	25,500	9,900	24,400	Utah ....	11,100	45,700	63,600	49,000
Md. ....	9,900	23,700	20,000	24,100	Vt. ....	9,600	32,400	4,800	42,400
Mass. ....	10,300	30,200	13,800	28,800	Va. ....	10,900	36,200	21,000	36,400
Minn. ....	8,750	35,600	14,600	35,300	Wash. ....	8,700	23,800	24,200	20,000
Miss. ....	12,000	19,800	10,200	21,900	W. Va. ....	10,200	36,100	18,800	33,300
Mo. ....	10,600	32,400	18,400	33,600	Wisc. ....	8,900	29,700	13,600	29,000
Mont. ....	7,300	41,800	36,100	46,500	Wyo. ....	8,500	27,200	7,760	22,900
Nebr. ....	8,900	40,500	23,100	42,600	D. C. ....	8,900	13,500	5,700	17,800

U. S. Av. 10,000 30,100 19,900 30,700

# 86 Million Motor Vehicles Produced in 43 Years

## Factory Sales and Wholesale Value, U. S. Plants

	PASSENGER CARS		MOTOR TRUCKS		TOTAL	
	Number	Value	Number†	Value†	Number	Value
1900...	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901...	7,000	8,183,000	.....	.....	7,000	8,183,000
1902...	9,000	10,395,000	.....	.....	9,000	10,395,000
1903...	11,235	13,000,000	.....	.....	11,235	13,000,000
1904...	22,130	23,357,692	700	1,272,747	22,830	24,630,439
1905...	24,250	38,670,000	750	1,330,000	25,000	40,000,000
1906...	33,200	61,460,000	800	1,440,000	34,000	62,900,000
1907...	43,000	91,620,000	1,000	1,780,000	44,000	93,400,000
1908...	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
1909...	123,990	159,765,721	3,297	5,333,683	127,287	165,099,404
1910...	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911...	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912...	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913...	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
1914...	548,139	420,838,378	24,900	44,219,096	573,039	465,057,474
1915...	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916...	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917...	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949	1,274,488,449
1918...	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919...	1,651,625	1,365,395,415	224,731	371,422,820	1,876,356	1,736,818,235
1920...	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
1921...	1,468,067	1,038,191,037	148,052	166,070,810	1,616,119	1,204,261,847
1922...	2,274,185	1,494,513,991	269,991	226,049,658	2,544,176	1,720,563,649
1923...	3,624,717	2,196,272,116	409,295	308,537,929	4,034,012	2,504,810,045
1924...	3,185,881	1,970,096,559	416,659	318,580,580	3,602,540	2,288,677,139
1925...	3,735,171	2,458,370,026	530,659	458,400,277	4,265,830	2,916,770,303
1926...	3,783,987	2,640,064,519	316,947	452,123,435	4,300,934	3,092,187,954
1927...	2,936,533	2,164,670,891	464,793	420,130,624	3,401,326	2,584,801,515
1928...	3,815,417	2,576,489,623	543,342	437,132,258	4,358,759	3,013,621,881
1929...	4,587,400	2,847,118,562	771,020	566,029,644	5,358,420	3,413,148,206
1930...	2,784,745	1,645,398,523	571,241	389,436,690	3,355,986	2,034,835,213
1931...	1,973,090	1,111,273,774	416,648	262,417,542	2,389,738	1,373,691,316
1932...	1,135,491	618,291,168	235,187	136,193,336	1,370,678	754,484,504
1933...	1,573,512	762,736,512	346,545	186,069,314	1,920,057	948,805,826
1934...	2,177,919	1,147,116,195	575,192	320,143,667	2,753,111	1,467,259,862
1935...	3,252,244	1,709,425,904	694,690	379,407,751	3,946,934	2,088,833,655
1936...	3,669,528	2,015,646,217	784,587	462,820,474	4,454,115	2,478,466,691
1937*	3,915,889	2,304,349,252	893,085	542,921,096	4,808,974	2,847,270,348
1938*	2,000,985	1,269,765,050	488,100	339,226,639	2,489,085	1,608,991,689
1939*	2,866,796	1,816,434,914	710,496	502,421,776	3,577,292	2,318,856,690
1940*	3,692,328	2,422,491,461	777,026	593,731,603	4,469,354	3,016,223,064
1941*	3,744,300	2,615,697,373	1,094,261	1,086,925,650	4,838,561	3,702,623,023
1942*	220,814	173,661,378	Not Available		Not Available	

\*Includes federal excise taxes, and standard equipment.

†A substantial part of the trucks reported comprises chassis only, without body; hence the value of bodies for these chassis is not included.

NOTE: Includes military vehicles.

# 83 out of 100 Motor Vehicle Dealers Still in Business

SOURCE: Motor Age; figures as of July 1943

	All Retail Outlets*	Car and Truck Dealers	Independent Repair Shops
Alabama	764	411	333
Arizona	277	125	138
Arkansas	639	350	288
California	5,933	1,590	4,124
Colorado	877	372	465
Connecticut	1,337	531	657
Delaware	158	68	68
District of Columbia	223	80	138
Florida	1,021	465	558
Georgia	943	562	368
Idaho	498	275	212
Illinois	5,036	2,055	2,831
Indiana	2,102	1,063	1,110
Iowa	2,370	1,210	1,091
Kansas	1,436	756	638
Kentucky	1,012	556	393
Louisiana	738	359	359
Maine	663	315	342
Maryland	821	415	379
Massachusetts	2,218	947	1,100
Michigan	3,634	1,651	1,830
Minnesota	2,641	1,007	1,615
Mississippi	569	406	190
Missouri	2,324	931	1,321
Montana	568	328	238
Nebraska	1,223	568	642
Nevada	177	74	87
New Hampshire	412	194	200
New Jersey	2,533	912	1,581
New Mexico	271	149	130
New York	7,148	2,392	4,537
North Carolina	1,205	652	502
North Dakota	832	408	430
Ohio	4,054	1,773	2,191
Oklahoma	1,445	653	746
Oregon	1,120	363	705
Pennsylvania	7,177	2,884	3,524
Rhode Island	344	131	182
South Carolina	545	353	223
South Dakota	654	337	296
Tennessee	842	426	402
Texas	4,212	1,744	2,471
Utah	436	186	227
Vermont	443	183	252
Virginia	1,355	662	660
Washington	1,677	588	1,113
West Virginia	796	451	309
Wisconsin	2,846	1,456	1,318
Wyoming	315	175	118
Total July 1943	80,863	34,542	43,677
Total December 1, 1941	95,295	41,790	49,208
Percent decrease—1941 to 1943	15.2	17.3	11.2

\*Includes motor vehicle dealers, independent repair shops, so-called super-service stations, and accessory stores.

## 1942 Civilian Repair Parts Production Decreased 34% Below 1941

(Estimates Based on Federal Excise Tax Receipts)

Year	Wholesale Value	Year	Wholesale Value
1933	\$234,461,091	1938	\$348,067,646
1934	304,641,916	1939	454,673,191
1935	378,323,361	1940	553,004,020
1936	448,526,861	1941	718,212,295
1937	464,618,885	1942	471,956,981

NOTE: For year to year comparisons, probably the most comprehensive and accurate measure of the trend in the domestic market sales of repair parts and accessories is obtainable from the Federal excise tax collections. The wholesale value of parts and accessories taxable has been estimated by dividing the tax rate into the aggregate annual collections for years commencing March 1st. (There is approximately a two months' lag between the month in which sales are made and the month in which collections are normally reported.)

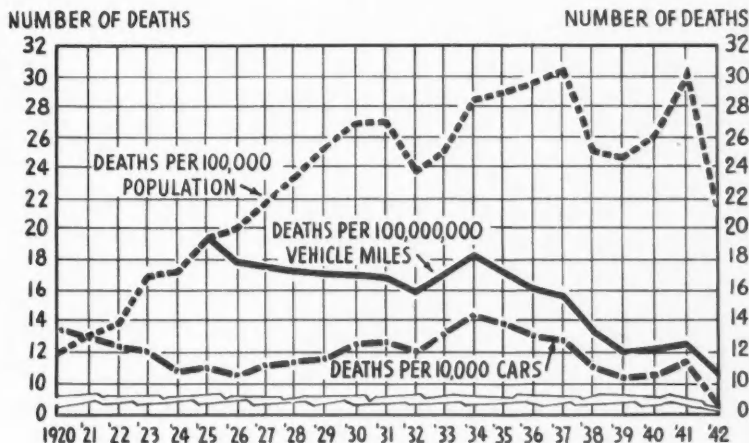
The Federal excise tax does not apply on parts and accessories exported, direct sales to governments, sales of garage and service equipment and items which are used for a variety of purposes other than automotive, such as bolts, nuts, lacquers, paints, varnish, cloth, leather, etc., used in repairs.

## Materials Used in Typical Passenger Car 1942 Model<sup>①</sup>, with Accessories

Material	Complete Car		Material	Complete Car	
	Gross, lbs.	Net, lbs.		Gross, lbs.	Net, lbs.
Iron	696.66	549.63	Cotton	66.80	63.13
Steel	3385.38	2397.81	Hair	.627	.583
Antimony	1.39	1.32	Jute	18.18	16.70
Aluminum	3.78	3.21	Leather	2.664	2.447
Cadmium	.047	.042	Paper Products	61.27	50.13
Chromium	5.56	4.32	Rubber Compound	170.58	161.38
Copper	54.49	45.57	†Crude Rubber	(83.36)	(80.14)
Lead	35.64	33.88	†Sec. Rubber	(33.38)	(30.71)
Magnesium	.010	.009	†Syn. Rubber	(.11)	(.09)
Molybdenum	.117	.069	†Fillers	(53.73)	(50.44)
Nickel	1.85	1.56	Wood	5.19	3.94
Silver	.005	.005	Wool	8.93	8.26
Tin	2.88	2.40	Paint and Thinner	81.40	26.38
Tungsten	.008	.008	Plastics (Inc. Fillers)	6.75	4.91
Vanadium	.0029	.0016	*Phenolic		
Zinc	25.51	23.28	(Inc. Fillers)	(2.07)	(1.65)
Asbestos	3.45	2.60	*Polyvinyl		
Asphalt	30.51	25.74	(Inc. Fillers)	(2.27)	(1.30)
Glass, in safety			*Other	(2.41)	(1.96)
glass	81.21	46.57	Sulphuric Acid	5.00	5.00
Glass, other	24.75	15.24	Grand Total	4781.69	3496.85
Mica	.116	.102			
Cork	.929	.626			

①—Original models, before substitution and conservation of materials took place.

# 1942 Traffic Fatality Rates Down



(SOURCE: "Accident Facts" by the National Safety Council)

	DEATHS FROM COLLISION WITH----							TOTAL DEATH RATES			
	ALL DEATHS	Deaths from Non-Collision Accidents	Pedestrians	Other Motor Vehicles	Railroad Trains	Street Cars	Bicycles and Horse-drawn Vehicles	Fixed Objects	Per 100,000 Population	Per 10,000 Mot. Vehicles	Per 100,000,000 Vehicle Miles
1927	25,796	7,870	10,820	3,430	1,832	520	820	500	21.8	11.1	17.7
1928	27,996	8,070	11,420	4,310	2,142	569	950	540	23.3	11.4	17.4
1929	31,215	9,380	12,250	5,400	2,046	530	990	620	25.7	11.7	17.3
1930	32,929	9,970	12,900	5,880	1,830	481	1,150	720	26.7	12.4	17.4
1931	33,675	9,570	13,370	6,820	1,714	435	900	870	27.1	13.0	17.0
1932	29,451	8,500	11,490	6,070	1,522	316	750	800	23.6	12.2	16.1
1933	31,363	8,680	12,840	6,470	1,437	318	710	900	24.9	13.2	17.1
1934	36,101	9,820	14,480	8,110	1,457	332	860	1,040	28.5	14.4	18.4
1935	36,369	9,720	14,350	8,750	1,587	253	700	1,010	28.5	13.9	17.4
1936	38,089	9,410	15,250	9,500	1,697	269	900	1,060	29.7	13.5	16.4
1937	39,643	9,680	15,500	10,320	1,810	264	900	1,160	30.7	13.3	15.9
1938	32,582	7,350	12,850	8,900	1,490	165	890	940	25.0	11.1	21.8
1939	32,386	7,980	12,400	8,700	1,330	150	910	1,000	24.7	10.6	12.0
1940	34,501	7,800	12,700	10,100	1,707	132	960	1,100	26.1	10.8	12.1
1941	39,969	8,450	13,550	12,500	1,840	118	1,160	1,350	30.0	11.6	12.7
1942	28,200	6,700	10,600	7,250	1,780	130	890	850	21.0	8.7	10.8
Percentage Changes											
1932 to '42	- 4%	-21%	- 8%	+19%	+17%	-59%	+19%	+ 6%	-11%	-29%	-33%
1941 to '42	-29%	-29%	-22%	-42%	- 3%	+10%	-23%	-37%	-30%	-25%	-15%

SOURCE: U. S. Census Bureau for total deaths and deaths from collisions with railroad trains and electric cars, through 1941. All other death figures are National Safety Council approximations. U. S. Public Roads Administration for motor vehicle registration and for gasoline consumption used for estimating vehicle mileage

# Members of Automobile Manufacturers Association

## Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Buick.....	Buick Motor Division*	Flint, Mich.
Cadillac.....	Cadillac Motor Car Division*	Detroit, Mich.
Checker.....	Checker Cab Mfg. Corporation.....	Kalamazoo, Mich.
Chevrolet.....	Chevrolet Motor Division*	Detroit, Mich.
Chrysler.....	Chrysler Sales Division†.....	Detroit, Mich.
Crosley.....	The Crosley Corporation.....	Cincinnati, Ohio
De Soto.....	De Soto Division†.....	Detroit, Mich.
Dodge.....	Dodge Division†.....	Detroit, Mich.
Graham.....	Graham-Paige Motors Corporation.....	Detroit, Mich.
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
Hupmobile.....	Hupp Motor Car Corporation.....	Detroit, Mich.
Nash.....	Nash-Kelvinator Corporation.....	Detroit, Mich.
Oldsmobile.....	Olds Motor Works Division*.....	Lansing, Mich.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Plymouth.....	Plymouth Division†.....	Detroit, Mich.
Pontiac.....	Pontiac Motor Division*.....	Pontiac, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Willys.....	Willys-Overland Motors, Inc.....	Toledo, Ohio

## Ambulance and Funeral Vehicle Manufacturers

Cadillac.....	Cadillac Motor Car Division*.....	Detroit, Mich.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.

## Station Wagons and Suburbans

Buick.....	Buick Motor Division*.....	Flint, Mich.
Chevrolet.....	Chevrolet Motor Division*.....	Detroit, Mich.
Chrysler.....	Chrysler Sales Division†.....	Detroit, Mich.
Crosley.....	The Crosley Corporation.....	Cincinnati, Ohio
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
International.....	International Harvester Company.....	Chicago, Ill.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Plymouth.....	Plymouth Division†.....	Detroit, Mich.
Pontiac.....	Pontiac Motor Division*.....	Pontiac, Mich.
Willys.....	Willys-Overland Motors, Inc.....	Toledo, Ohio

†Chrysler Corporation

\*General Motors Corporation



# Members of Automobile Manufacturers Association

## Motor Truck Manufacturers

Including Light Commercial Vehicle Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar	The Autocar Company	Ardmore, Pa.
Chevrolet	Chevrolet Motor Division *	Detroit, Mich.
Corbitt	The Corbitt Company	Henderson, N. C.
Crosley	The Crosley Corporation	Cincinnati, Ohio
Diamond T	Diamond T. Motor Car Company	Chicago, Ill.
Dodge	Dodge Division †	Detroit, Mich.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
Hudson	Hudson Motor Car Company	Detroit, Mich.
International	International Harvester Company	Chicago, Ill.
LaFrance-Republic	Sterling Motor Truck Company	Milwaukee, Wis.
Mack	Mack Manufacturing Corporation	New York, N. Y.
Reo	Reo Motors, Inc.	Lansing, Mich.
Sterling	Sterling Motor Truck Company	Milwaukee, Wis.
Studebaker	The Studebaker Corporation	South Bend, Ind.
Walter	Walter Motor Truck Company	Ridgewood, N. Y.
White	The White Motor Company	Cleveland, Ohio
Willys	Willys-Overland Motors, Inc.	Toledo, Ohio
†Chrysler Corporation		*General Motors Corporation

## Motor Bus Manufacturers

Diamond T	Diamond T Motor Car Company	Chicago, Ill.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
I. H. C.	International Harvester Company	Chicago, Ill.
Mack	Mack Manufacturing Corporation	New York, N. Y.
Reo	Reo Motors, Inc.	Lansing, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.
White	The White Motor Company	Cleveland, Ohio

## Truck Trailer Manufacturers

Corbitt	The Corbitt Company	Henderson, N. C.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
Mack	Mack Manufacturing Corporation	New York, N. Y.
White	The White Motor Company	Cleveland, Ohio

## Motor Fire Apparatus Manufacturers

Mack	Mack Manufacturing Corporation	New York, N. Y.
Walter	Walter Motor Truck Company	Ridgewood, N. Y.
White	The White Motor Company	Cleveland, Ohio

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